

Tetrahedron Letters Vol. 50, No. 17, 2009

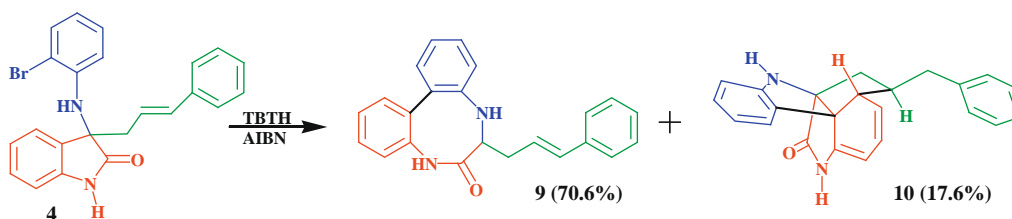
Contents

Communications

A convenient synthesis of *ortho-ortho* disubstituted biphenyls containing an eight-membered lactam ring using radical chemistry

pp 1879–1881

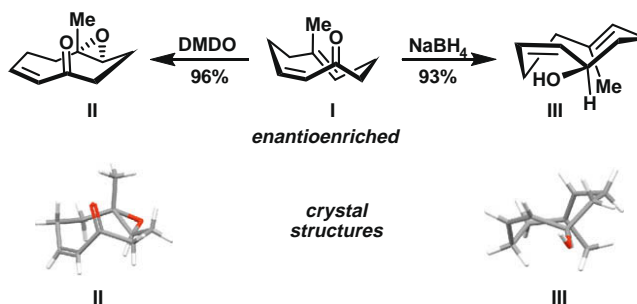
C. H. Wang<sup>\*</sup>, S. Alluri, A. K. Ganguly



Structure and reactivity of a chiral cyclononadienone

pp 1882–1885

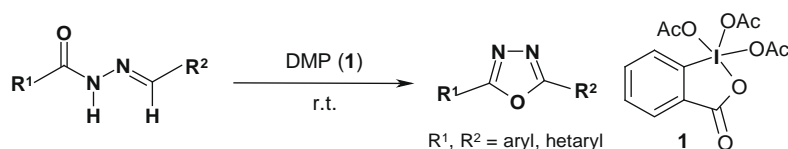
Yue Zhang, Stephen D. Lotesta, Thomas J. Emge, Lawrence J. Williams<sup>\*</sup>



Convenient preparation of unsymmetrical 2,5-disubstituted 1,3,4-oxadiazoles promoted by Dess–Martin reagent

pp 1886–1888

Cristian Dobrotă<sup>\*</sup>, Codruța C. Paraschivescu, Ioana Dumitru, Mihaela Matache, Ion Baciu, Lavinia L. Ruță

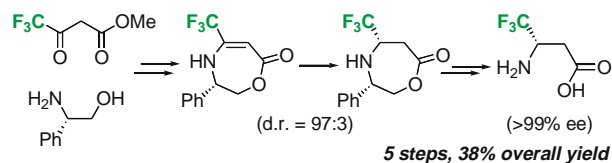


2,5-Disubstituted 1,3,4-oxadiazoles have been conveniently prepared by oxidative cyclization of *N*-acyl-*N*-arylidene-hydrazines promoted by an excess of Dess–Martin reagent under mild conditions (23 examples, up to 92% isolated yields).

### A practical method to access enantiopure $\beta$ -perfluoroalkyl- $\beta$ -amino acids: diastereoselective reduction of cyclic enamino-esters

pp 1889–1892

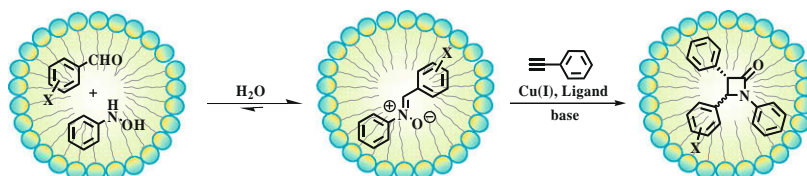
Yasuhiro Ishida\*, Nobutaka Iwahashi, Nao Nishizono, Kazuhiko Saigo\*



### Studies of multicomponent Kinugasa reactions in aqueous media

pp 1893–1896

Craig S. McKay, David C. Kennedy, John Paul Pezacki\*



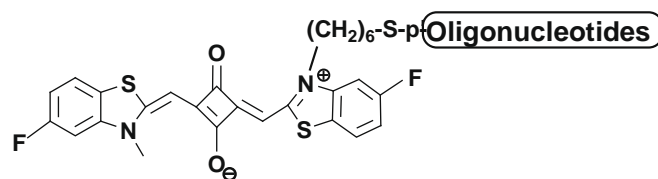
Studies of the micelle-promoted and copper-catalyzed multicomponent Kinugasa reaction in water are reported.



### Fluorinated squaraine as near-IR label with improved properties for the labeling of oligonucleotides

pp 1897–1901

Brice-Loïc Renard, Yves Aubert, Ulysse Asseline\*



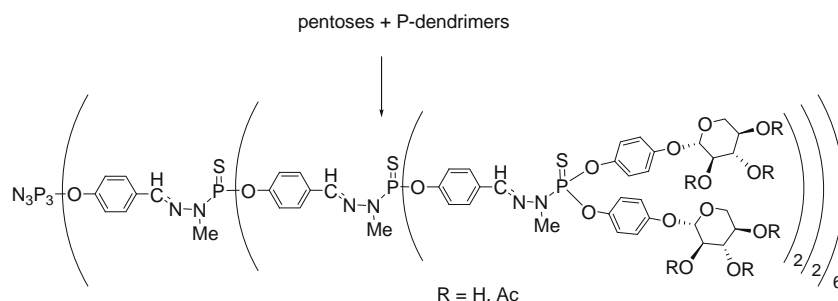
Fluorinated squaraine-oligonucleotide conjugates: detection beyond 670 nm and high quantum yields (0.27–0.39).



### First phosphorous D-xylose-derived glycodendrimers

pp 1902–1905

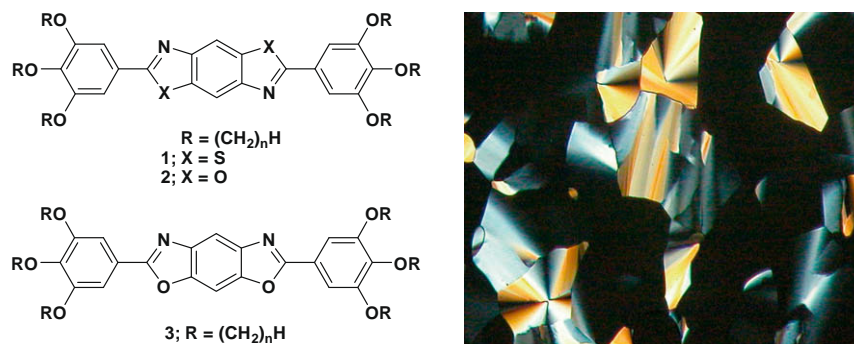
Caroline Hadad, Jean-Pierre Majoral, Jacques Muzart, Anne-Marie Caminade, Sandrine Bouquillon\*



**Heterocyclic columnar hexacatenar bisthiazoles**

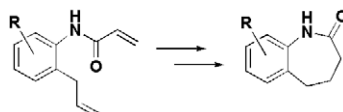
pp 1906–1910

Hui-Hsu Gavin Tsai, Lung-Chun Chou, Sheng-Chia Lin, Hwo-Shuenn Sheu, Chung K. Lai \*

**Synthesis of substituted 1-benzazepin-2-ones via ring-closing olefin metathesis**

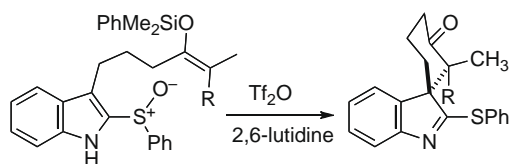
pp 1911–1913

Scott B. Hoyt \*, Clare London, Min Park

**Extending Pummerer reaction chemistry. Examination of the prospects for forming vicinal quaternary carbon centers**

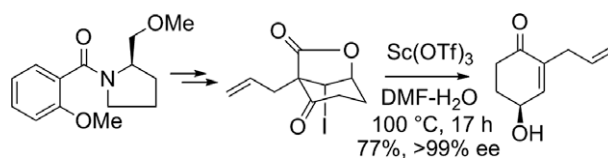
pp 1914–1916

Ken S. Feldman \*, Ahmed Yimam Nuriye

**Asymmetric synthesis of 2-alkyl-4-hydroxycyclohex-2-en-1-ones by scandium(III) triflate-catalyzed fragmentation of 2-alkyl-3-iodo-1-oxocyclohexan-2,4-carbolactones**

pp 1917–1919

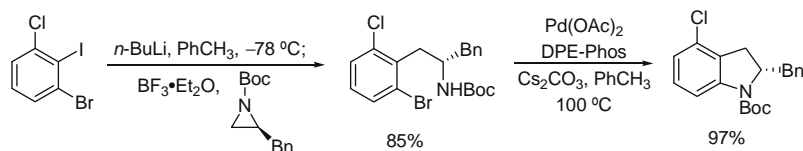
Jun-ichi Matsuo \*, Mizuki Kawano, Kosuke Takeuchi, Hiroyuki Tanaka, Hiroyuki Ishibashi



**Ring opening of aziridines with *ortho*-bromophenyl metal reagents: synthesis of 2-substituted indolines**

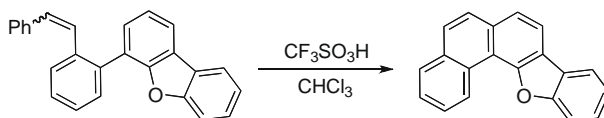
pp 1920–1923

David J. Michaelis, Thomas A. Dineen \*

**Triflic acid promoted synthesis of polycyclic aromatic compounds**

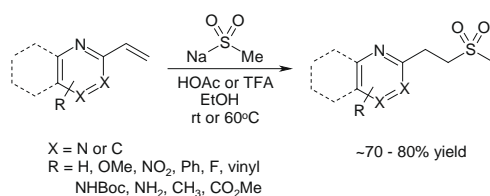
pp 1924–1927

Ang Li, Daniel J. DeSchepper, Douglas A. Klumpp \*

**Conjugate addition of sodium methanesulfinate to vinyl pyridines and diazines for the synthesis of aliphatic sulfones**

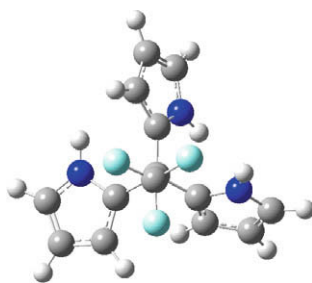
pp 1928–1933

Gregory M. Schaaf \*, Sabuj Mukherjee, Alex G. Waterson

**A closer insight into the mechanism operating in the trifluoroacetylation of pyrrole. New trifluoromethyl pyrrolylmethane discovered**

pp 1934–1938

W. J. Peláez, M. A. Burgos Paci, G. A. Argüello \*

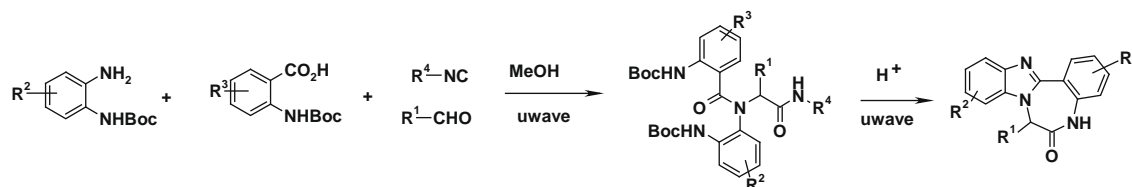


A thorough revision of the mechanism of trifluoroacetylation of pyrrole, identification, isolation, and characterization of a new pyrrolylmethane probably missed in the synthesis of fluorinated porphyrins, is reported.



**An efficient solution phase synthesis of triazadibenzoazulenones: ‘designer isonitrile free’ methodology enabled by microwaves**

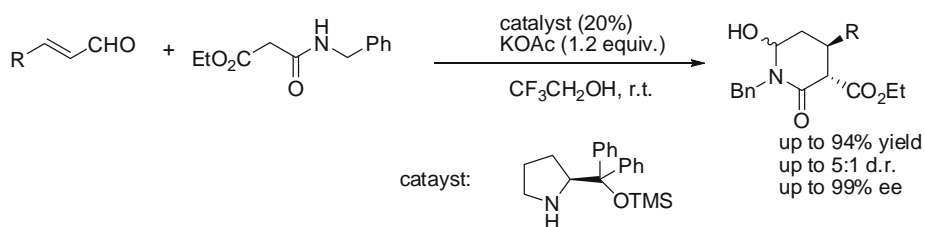
pp 1939–1942

Christopher Hulme <sup>\*</sup>, Shashi Chappeta, Chris Griffith, Yeon-Sun Lee, Justin Dietrich

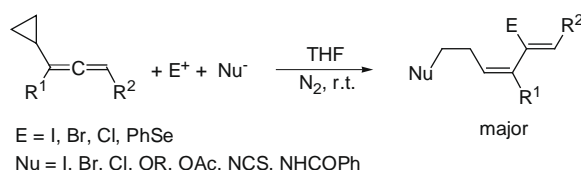
A novel two-step synthesis of triazadibenzoazulenones is described. The methodology represents the first example of a post-condensation Ugi modification that employs two ‘internal nucleophiles’.

**Highly enantioselective organocatalytic synthesis of piperidines. Formal synthesis of (–)-Paroxetine**

pp 1943–1946

Guillem Valero, Jiri Schimer, Ivana Cisarova, Jan Vesely <sup>\*</sup>, Albert Moyano <sup>\*</sup>, Ramon Rios <sup>\*</sup>**Difunctional additions to 1-cyclopropylallenes: an efficient and stereospecific method for the synthesis of 2,6-difunctional-1,3-hexadienes**

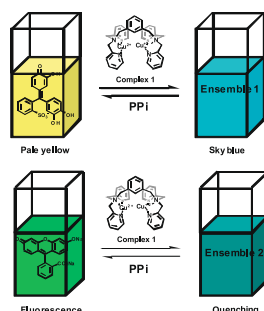
pp 1947–1950

Bo Meng, Lei Yu, Xian Huang <sup>\*</sup>

The difunctional additions of electrophiles and nucleophiles to 1-cyclopropylallenes were investigated. Two different functional groups were introduced at the same time to give 2,6-difunctional-1,3-hexadienes stereoselectively in good yields.

**Dual signal (color change and fluorescence ON–OFF) ensemble system based on bis(Dpa-Cu<sup>II</sup>) complex for detection of PPI in water**

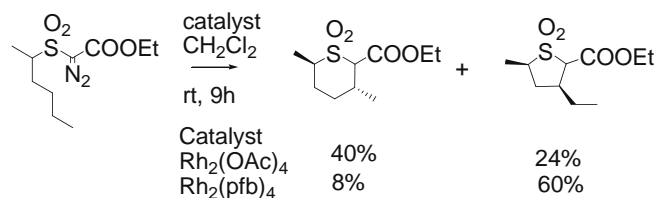
pp 1951–1953

Soon Young Kim, Jong-In Hong <sup>\*</sup>

**Formation of six- versus five-membered cyclic sulfones by C–H insertion**

pp 1954–1957

Christian S. Jungong, Jinu P. John, Alexei V. Novikov \*

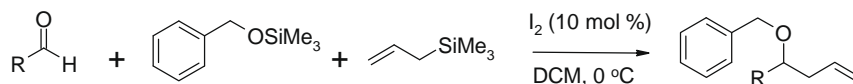


Selectivity of six- versus five-membered ring formation in C–H insertion on alkylsulfonamide diazoacetates is sensitive to the substrate structure and catalyst used.

**Iodine-catalyzed one-pot three-component synthesis of homoallyl benzyl ethers from aldehydes**

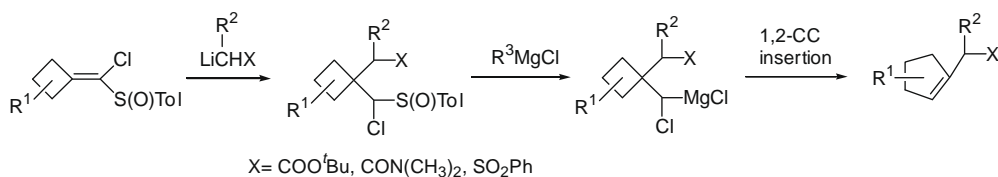
pp 1958–1960

Dolly Katak, Prodeep Phukan \*

**A synthesis of esters, amides, and sulfones bearing a 1-cyclopentenyl group at the  $\alpha$ -position from cyclobutanones with one-carbon ring-expansion**

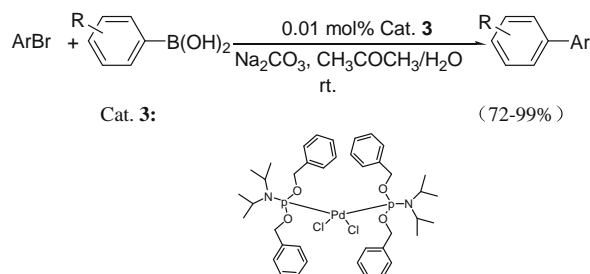
pp 1961–1964

Tsuyoshi Satoh \*, Yu Awata, Shingo Ogata, Shimpei Sugiyama, Masami Tanaka, Motoo Tori

**An inexpensive and highly stable palladium(II) complex for room temperature Suzuki coupling reactions under ambient atmosphere**

pp 1965–1968

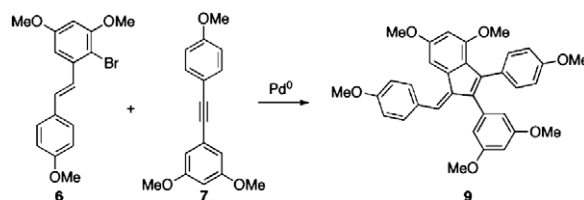
Mengping Guo \*, Qiaochu Zhang



**An approach to the synthesis of dimeric resveratrol natural products via a palladium-catalyzed domino reaction**

pp 1969–1972

Jenna L. Jeffrey, Richmond Sarpong \*

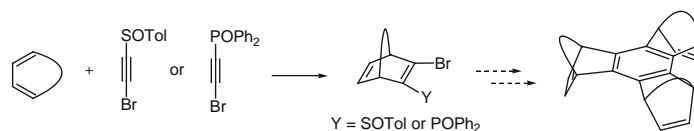


A route for the rapid assembly of the carbon framework of several resveratrol natural products is presented. A palladium-catalyzed domino reaction of bromostilbene derivative **6** and tolane **7**, involving two sequential Heck coupling reactions, provides access to the benzofulvene-based core of various resveratrol-derived natural products. The carbon skeleton of pallidol and its congeners is achieved by a Lewis acid-induced Nazarov-type oxidative cyclization of **9**.

**1-Bromo-2-(diphenylphosphinoyl)ethyne and 1-bromo-2-(p-tolylsulfinyl)ethyne: versatile reagents eventually leading to benzocyclotrimers**

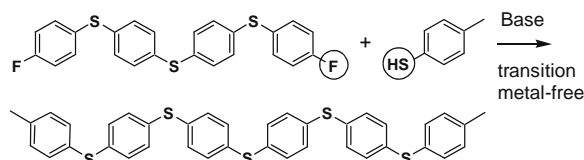
pp 1973–1976

Pierluigi Padovan, Stefano Tartaglia, Silvia Lorenzon, Enrico Rosso, Cristiano Zonta, Ottorino De Lucchi, Fabrizio Fabris \*

**p-Phenylene sulfide oligomers and their properties. Ar–S couplings mediated by copper or by fluorine substitutions**

pp 1977–1981

Olivier Goyot, Marc Gingras \*

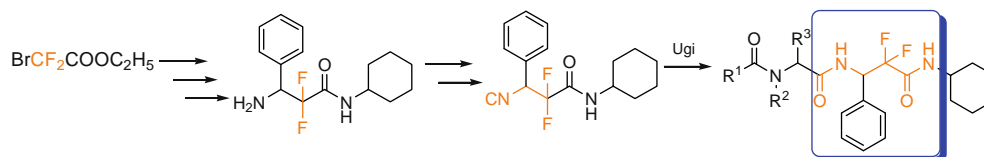


A series of monodisperse PPS oligomers of various length were synthesized by Cu-cat. Ar–S couplings or by fluorine aromatic substitutions with aryl thiolates. Fluorine chemistry brings new advantages such a greater solubility, reactivity and easier characterization by  $^{19}\text{F}/^{13}\text{C}$  NMR. Crystallinity studies of a series of PPS oligomers were investigated.

**New gem-difluoromethylene-containing isocyanide as a useful building block for the synthesis of difluorinated pseudopeptides via Ugi reaction**

pp 1982–1985

Nianjin Liu, Song Cao \*, Li Shen, Jingjing Wu, Jinlong Yu, Jian Zhang, Hui Li, Xuhong Qian \*

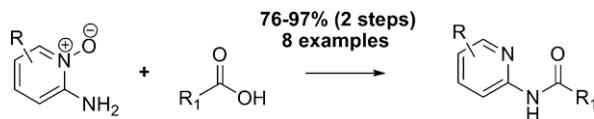


A new and efficient method was developed for the synthesis of novel gem-difluoromethylene-containing isocyanide, which can be used as a building block for the synthesis of difluorinated pseudopeptides via Ugi reaction.

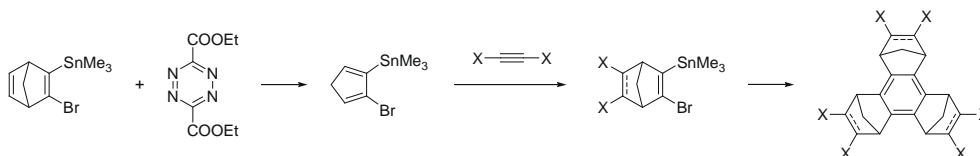


**An improved amide coupling procedure for the synthesis of *N*-(pyridin-2-yl)amides**

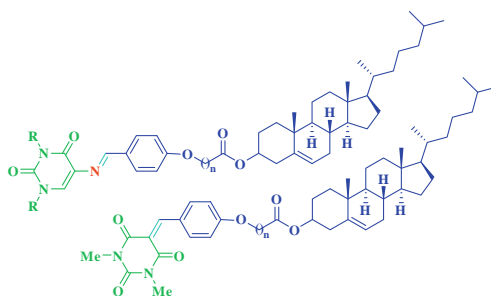
pp 1986–1988

Allyn T. Londregan <sup>\*</sup>, Gregory Storer, Ceshea Wooten, Xiaojing Yang, Joseph Warmus**Novel and versatile protocol for the preparation of functionalized benzocyclotrimers**

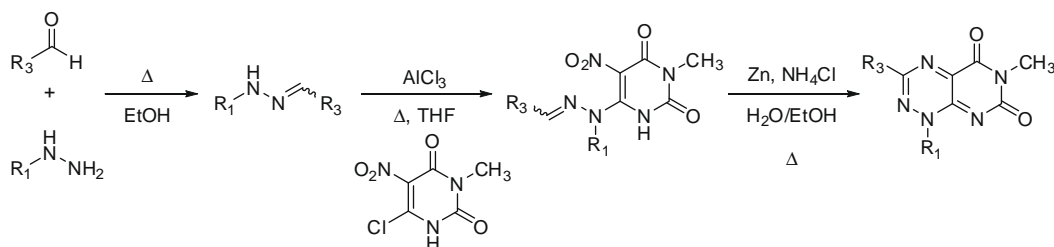
pp 1989–1991

Erdin Dalkılıç, Murat Güney, Arif Daştan <sup>\*</sup>, Nurullah Saracoglu, Ottorino De Lucchi, Fabrizio Fabris <sup>\*</sup>**Synthesis and mesomorphic behaviour of new mesogenic compounds possessing a cholesteryl ester moiety connected to a pyrimidine core**

pp 1992–1995

K. C. Majumdar <sup>\*</sup>, Shovan Mondal, Nilasish Pal, Randhir Kumar Sinha**A novel synthesis of *N*<sub>1</sub>-(substituted)-pyrimido[5,4-*e*]-1,2,4-triazine-5,7(1*H*,6*H*)-diones**

pp 1996–1997

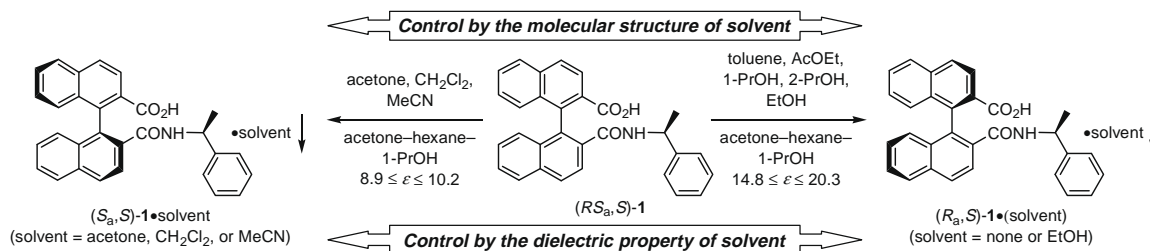
Anjanette J. Turbiak, H. D. Hollis Showalter <sup>\*</sup>



**Crystallization-based optical resolution of 1,1'-binaphthalene-2,2'-dicarboxylic acid via 1-phenylethylamides: control by the molecular structure and dielectric property of solvent**

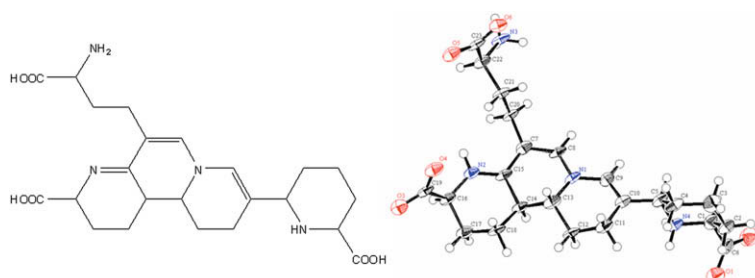
pp 1998–2002

Yuki Kato, Yuichi Kitamoto, Naoya Morohashi, Yosuke Kuruma, Shuichi Oi, Kenichi Sakai, Tetsutaro Hattori \*

**Oryzamutaic acid A, a novel yellow pigment from an *Oryza sativa* mutant with yellow endosperm**

pp 2003–2005

Hiroshi Nakano \*, Seiji Kosemura, Toshisada Suzuki, Katsutoshi Hirose, Ryota Kaji, Makoto Sakai

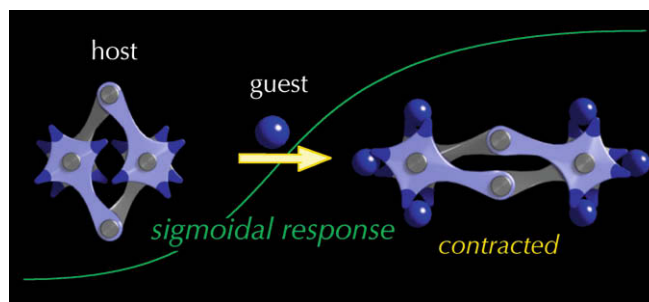


Oryzamutaic acid A, a novel yellow pigment, was isolated from the endosperm (polished rice) of an *Oryza sativa* mutant. The structure and absolute configuration of oryzamutaic acid A were elucidated on the basis of spectroscopic analysis, single-crystal X-ray diffraction analysis, and biogenetic reason.

**A preliminary step toward molecular spring driven by cooperative guest binding**

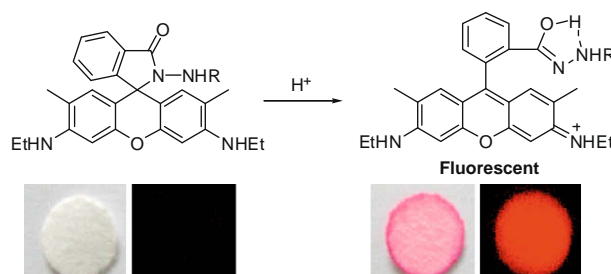
pp 2006–2009

Tomohiro Ikeda, Seiji Shinkai \*, Kazuki Sada, Masayuki Takeuchi \*

**Fluorescent and colorimetric detection of acid vapors by using solid-supported rhodamine hydrazides**

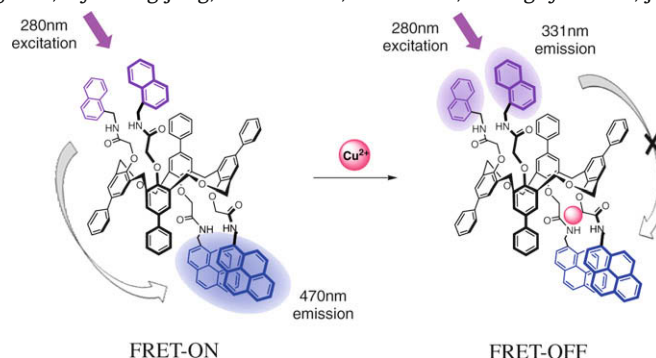
pp 2010–2012

Shincheol Kang, Sungwook Kim, Young-Keun Yang, Shinhyo Bae, Jinsung Tae \*

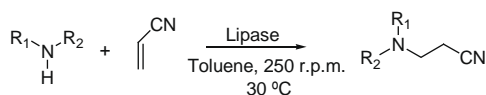


**Metal ion induced FRET On–Off in naphthyl-pyrenyl pendent tetrahomodioxacalix[4]arene**

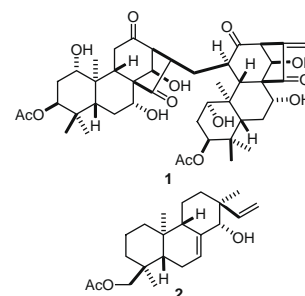
pp 2013–2016

Ji Hee Jung, Min Hee Lee, Hyun Jung Kim, Hyo Sung Jung, Su Yeon Lee, Na Ri Shin, Kwanghyun No <sup>\*</sup>, Jong Seung Kim <sup>\*</sup>**Michael additions of primary and secondary amines to acrylonitrile catalyzed by lipases**

pp 2017–2018

Rodrigo O. M. A. de Souza <sup>\*</sup>, Lilian M. C. Matos, Karen M. Gonçalves, Ingrid C. R. Costa, Ivelize Babics, Selma G. F. Leite, E. G. Oestreicher, O. A. C. Antunes**Diterpenoids from *Isodon pharicus***

pp 2019–2023

Yong Zhao, Sheng-Xiong Huang, Wei-Lie Xiao, Li-Sheng Ding, Jian-Xin Pu, Xian Li, Li-Bin Yang, Han-Dong Sun <sup>\*</sup>

A phytochemical investigation of *Isodon pharicus* led to the isolation of a novel asymmetric *ent*-kauranoid dimer, bispseurata F (1), and three new diterpenoids pharicinins A–C (2–4). Their structures were elucidated by extensive spectroscopic analysis. Compound 1 features a unique linkage pattern of C-17 with C-11' to connect the two monomers. A possible biogenetic pathway of 1 was also proposed. Compounds 3 and 4 exhibited moderate inhibitory activity against NB4 and SH-SY5Y cell lines.

**OTHER CONTENTS**


Erratum

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Corrigenda

pp 2025–2026

\*Corresponding author

 Supplementary data available via ScienceDirect

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Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®

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