



Contents lists available at ScienceDirect

# Tetrahedron: Asymmetry

journal homepage: [www.elsevier.com/locate/tetasy](http://www.elsevier.com/locate/tetasy)



**Tetrahedron: Asymmetry Vol. 20, No. 14, 2009**

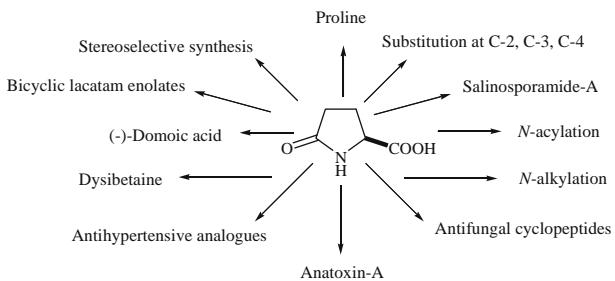
## Contents

### REPORT

#### **Pyroglutamic acid: a unique chiral synthon**

pp 1581–1632

Sharad Kumar Panday \*, Jagdish Prasad, Dinesh Kumar Dikshit

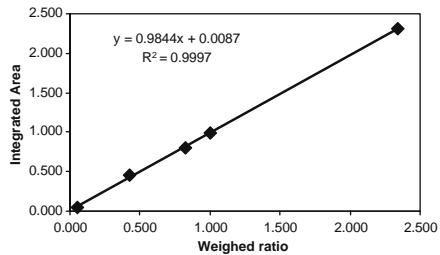


### ARTICLES

#### **Fast enantioselective amino acid quantitative $^{13}\text{C}$ NMR determination by a praseodymium chiral shift reagent**

pp 1633–1636

Gaëlle F. Arnaud, Nicola Florini \*, Luciano Caglioti, Claudia Zucchi, Gyula Pályi

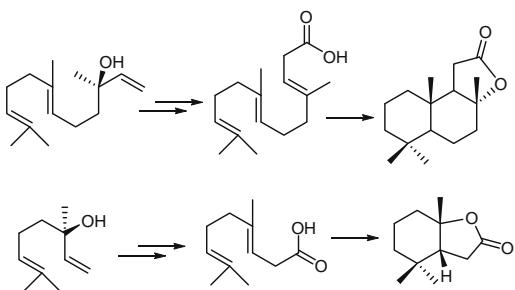


t/b ratio of alanine (weight vs integrated area) determined by  $^{13}\text{C}$  NMR.

#### **Efficient enantioselective synthesis of (+)-scclareolide and (+)-tetrahydroactinidiolide: chiral LBA-induced biomimetic cyclization**

pp 1637–1640

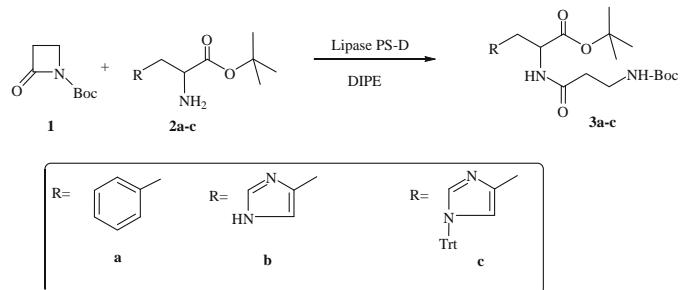
Kiran B. Upar, Sanjay J. Mishra, Shrikant P. Nalawade, Soni A. Singh, Reena P. Khandare, Sujata V. Bhat \*



---

**Enzymatic synthesis of carnosine derivatives catalysed by *Burkholderia cepacia* lipase**

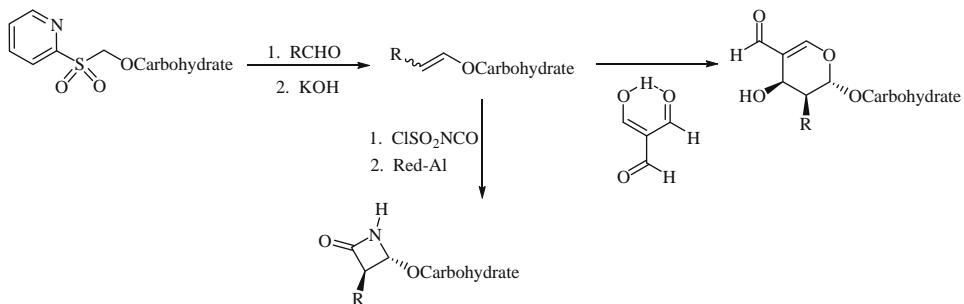
pp 1641–1645

Paola D'Arrigo <sup>\*</sup>, Liisa T. Kanerva, Xiang-Guo Li, Caterina Saraceno, Stefano Servi, Davide Tessaro

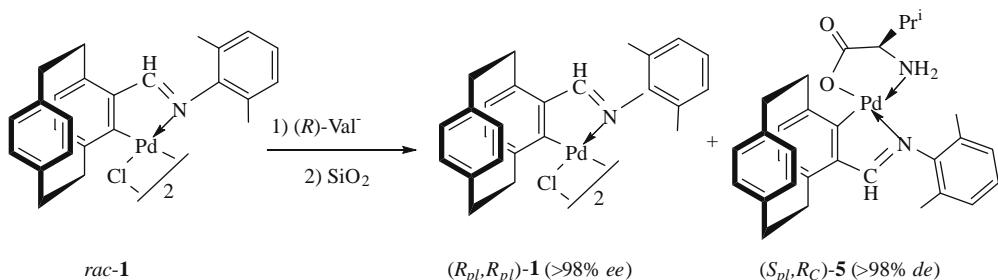
---

**Glycosylated vinyl ethers by the Julia–Lythgoe–Kocienski olefination: application to the synthesis of 2',5'-dideoxydisaccharides and carbohydrate β-lactams**

pp 1646–1660

Iván Pérez Sánchez, Edward Turos <sup>\*</sup>

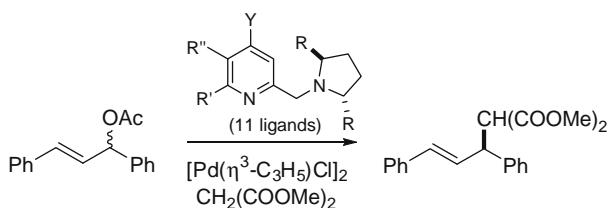
---

**First enantiopure imine CN-palladacycle of non-metallocenic planar chirality with the [2.2]paracyclophane backbone** pp 1661–1671Valery V. Dunina <sup>\*</sup>, Eugeniya I. Turubanova, Michail V. Livantsov, Konstantin A. Lyssenko, Natalia V. Vorontsova, Dmitrii Yu. Antonov, Yuri K. Grishin <sup>\*</sup>

---

**Chiral amine-imine ligands based on *trans*-2,5-disubstituted pyrrolidines and their application in the palladium-catalyzed allylic alkylation**

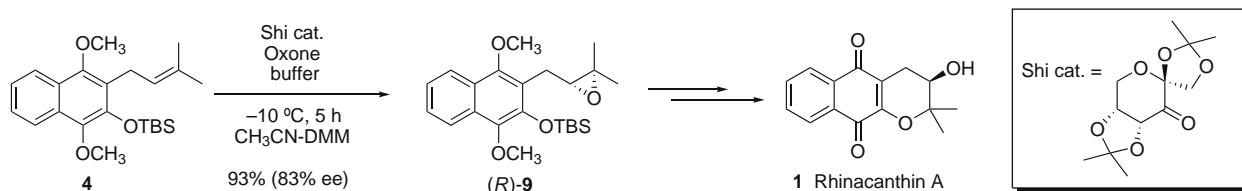
pp 1672–1682

Hongfeng Chen, James A. Sweet, Kin-Chung Lam, Arnold L. Rheingold, Dominic V. McGrath <sup>\*</sup>

---

**Asymmetric total synthesis of rhinacanthin A**

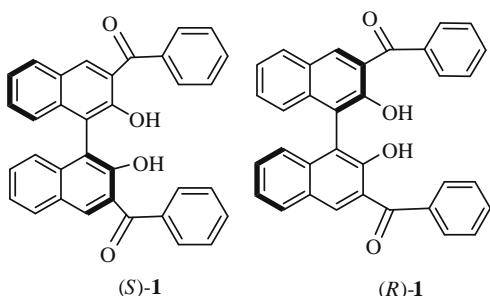
pp 1683–1689

Tetsutaro Kimachi <sup>\*</sup>, Eri Torii, Rina Ishimoto, Ayako Sakue, Motoharu Ju-ichi

---

**Enantioselective fluorescent sensors for amino acid derivatives based on BINOL bearing benzoyl unit**

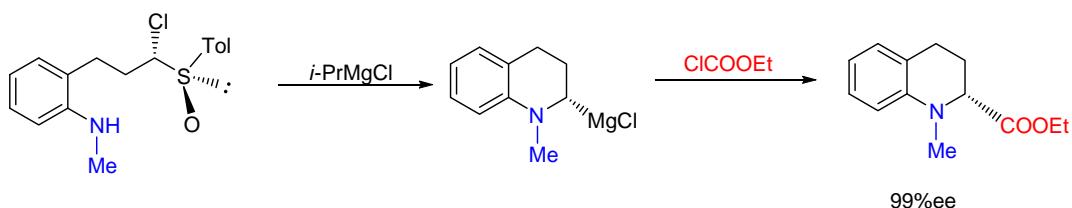
pp 1690–1696

Kuo-xi Xu, Zhen Qiu, Jin-Jin Zhao, Jin Zhao, Chao-jie Wang <sup>\*</sup>

---

**Asymmetric synthesis of cyclic  $\alpha$ -amino acid derivatives by the intramolecular reaction of magnesium carbenoid with an *N*-magnesio arylamine**

pp 1697–1708

Shintaro Mitsunaga, Tohru Ohbayashi, Shimpei Sugiyama, Takahito Saitou, Makoto Tadokoro, Tsuyoshi Satoh <sup>\*</sup>

## OTHER CONTENTS

Stereochemistry abstracts

pp A379–A386

pp I–IV

Tetrahedron: Asymmetry reports

pp V–VIII

Cumulative author index

\*Corresponding author

---

Available online at [www.sciencedirect.com](http://www.sciencedirect.com)



---

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

---



ISSN 0957-4166