

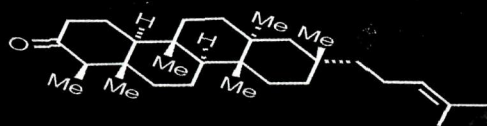
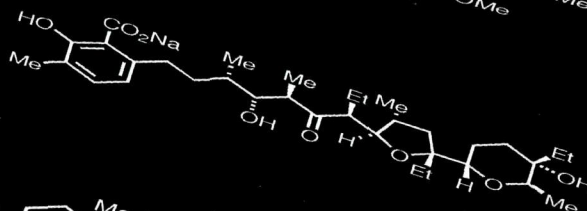
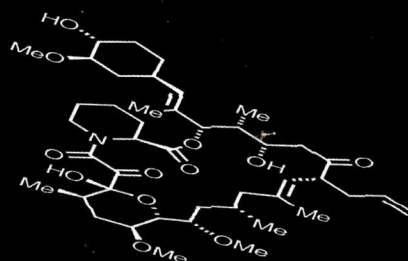
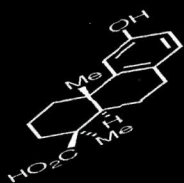
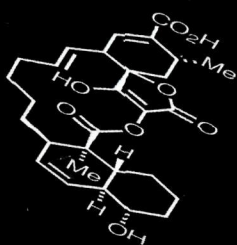
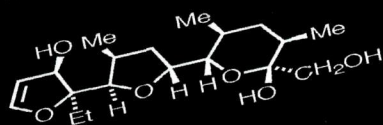
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# JOC

The Journal of Organic Chemistry

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*Stereochemistry Rears its Ugly Head*



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**ON THE COVER:** A student contemplates the meaning of “Stereochemistry Rears its Ugly Head” while reading Chapter 5 of the Ireland book on Organic Synthesis as structures of Ireland synthetic targets drift overhead. See Marshall, p 1.

**SPECIAL ISSUE: ROBERT IRELAND MEMORIAL ISSUE**

**Editorial**

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Robert Ellsworth Ireland  
James A. Marshall

dx.doi.org/10.1021/jo302397x

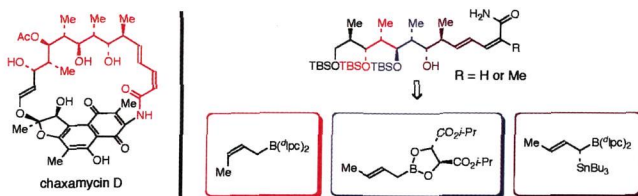
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**Crotlylboron-Based Synthesis of the Polypropionate Units of Chaxamycins A/D, Salinisporamycin, and Rifamycin S**  
Ming Chen and William R. Roush\*

dx.doi.org/10.1021/jo3008226

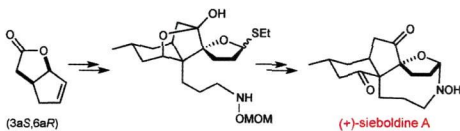


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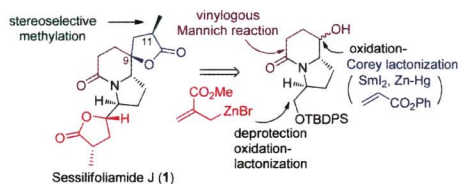
**Total Synthesis of (+)-Sieboldine A: Evolution of a Pinacol-Terminated Cyclization Strategy**  
Stephen M. Canham, David J. France, and Larry E. Overman\*

dx.doi.org/10.1021/jo300872y



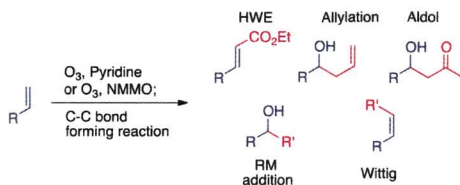
### Total Synthesis of (–)-Sessilifoliamide J

Xue-Kui Liu, Jian-Liang Ye, Yuan-Ping Ruan, Yu-Xiu Li, and Pei-Qiang Huang\*



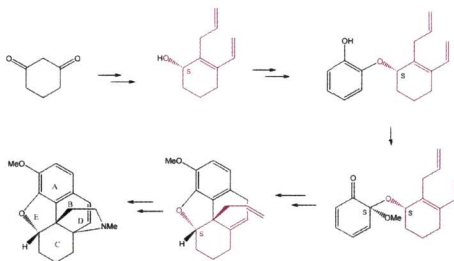
### Tandem Application of C–C Bond-Forming Reactions with Reductive Ozonolysis

Rachel Willand-Charnley and Patrick H. Dussault\*



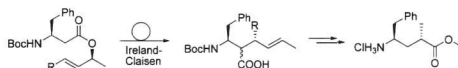
### From Chiral *ortho*-Benzoquinone Monoketals to Nonracemic Indolinocodienes through Diels–Alder and Cope Reactions

Jihong Gao, Josephine Orso Simon, Russell Rodrigo,\* and Abdeljalil Assoud



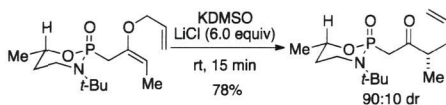
### Synthesis of Tubophenylalanines via Ireland–Claisen Rearrangement

Dominic Becker and Uli Kazmaier\*



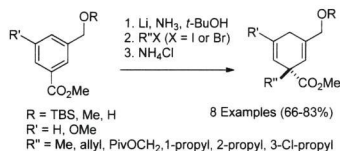
### Carbanion-Accelerated Claisen Rearrangements: Asymmetric Induction with Chiral Phosphorus-Stabilized Anions

Scott E. Denmark,\* John E. Marlin, and G. Rajendra



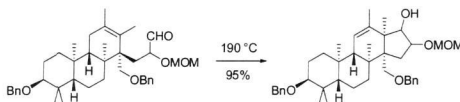
### Birch Reductive Alkylation of Methyl *m*-(Hydroxymethyl)benzoate Derivatives and the Behavior of *o*- and *p*-(Hydroxymethyl)benzoates under Reductive Alkylation Conditions

Samuel J. Fretz, Christopher M. Hadad, David J. Hart,\* Shubham Vyas, and Dexi Yang



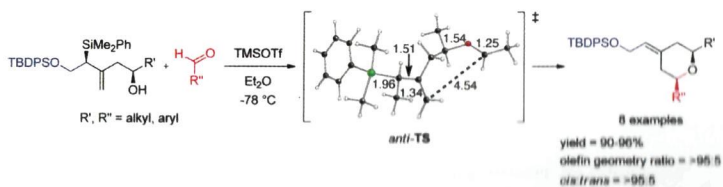
### Toward the Total Synthesis of (±)-Andrastin C

Rei Okamoto, Kazutaka Takeda, Hidetoshi Tokuyama, Masataka Ihara, and Masahiro Toyota\*



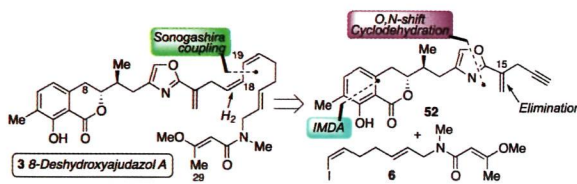
### Mechanistic and Computational Studies of Exocyclic Stereocontrol in the Synthesis of Bryostatin-like *Cis*-2,6-Disubstituted 4-Alkylidenetetrahydropyrans by Prins Cyclization

Yasuyuki Ogawa, Phillip P. Painter, Dean J. Tantillo,\* and Paul A. Wender\*



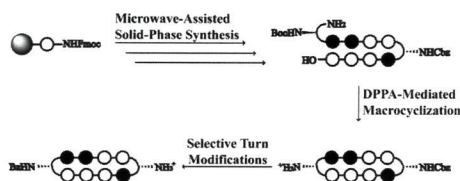
### Total Synthesis of the Proposed Structure of 8-Deshydroxyajudazol A: A Modified Approach to 2,4-Disubstituted Oxazoles

Stephen Birkett, Danny Ganame, Bill C. Hawkins, Sébastien Meiries, Tim Quach, and Mark A. Rizzacasa\*



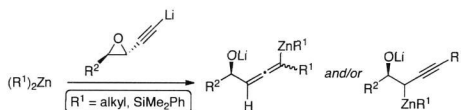
### Synthesis of Cyclic Py-Im Polyamide Libraries

Aurélien Denichoux, Laurent Debien, Mathieu Cyklinsky, Malika Kaci, Fabrice Chelma,\* Franck Ferreira,\* and Peter B. Deravan\*



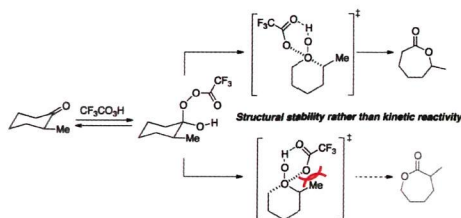
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Aurélien Denichoux, Laurent Debien, Mathieu Cyklinsky, Malika Kaci, Fabrice Chelma,\* Franck Ferreira,\* and Alejandro Pérez-Luna



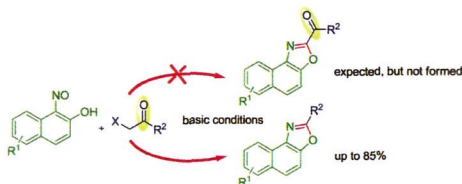
### Theoretical Study on the Regioselectivity of Baeyer–Villiger Reaction of $\alpha$ -Me-, -F-, -CF<sub>3</sub>-Cyclohexanones

Yoshimitsu Itoh, Masahiro Yamanaka, and Koichi Mikami\*



### Reaction of 1-Nitroso-2-naphthols with $\alpha$ -Functionalized Ketones and Related Compounds: The Unexpected Formation of Decarbonylated 2-Substituted Naphtho[1,2-*d*][1,3]oxazoles

Nayyef Aljaar, Chandi C. Malakar, Jürgen Conrad, Wolfgang Frey, and Uwe Beifuss\*



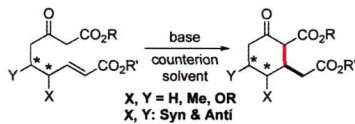
### 5-Hydroxyindoles by Intramolecular Alkynol–Furan Diels–Alder Cycloaddition

Matthew LaPorte, Ki Bum Hong, Jie Xu, and Peter Wipf\*



### The Stereochemical Course of Intramolecular Michael Reactions

Eugene E. Kwan, Jonathan R. Scheerer, and David A. Evans\*



## Notes

### Halocycloalkenones as Diels–Alder Dienophiles. Applications to Generating Useful Structural Patterns

Audrey G. Ross, Steven D. Townsend, and Samuel J. Danishefsky\*

