

# Enhancing the User Experience for Wiley Chemistry Content

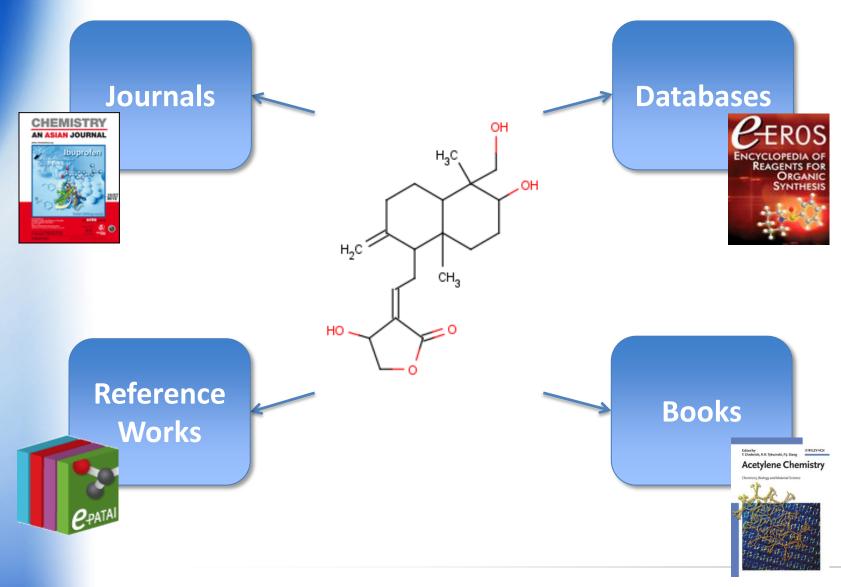
Reinhard Neudert



- > Introduction
- Chemistry Enrichment Workflow
- Scheme templates
- Scheme Enumeration
- Text Annotation

- > The Smart Article
- How to access Smart Articles
- Navigation in Smart Articles
- Chemistry Search

# Introduction: Discover Wiley Chemistry



WILEY

# Chemistry in Authors Publications

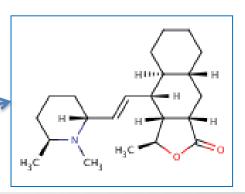
# Challenge!!

Searchable Compound Repository

Schemes: CDX (ChemDraw)

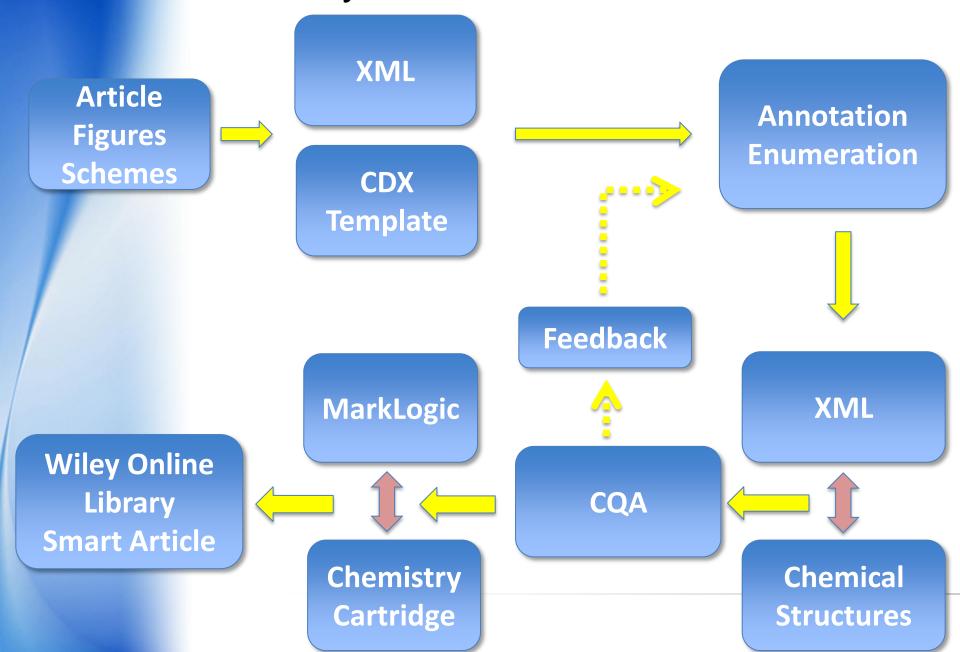
**Text** 

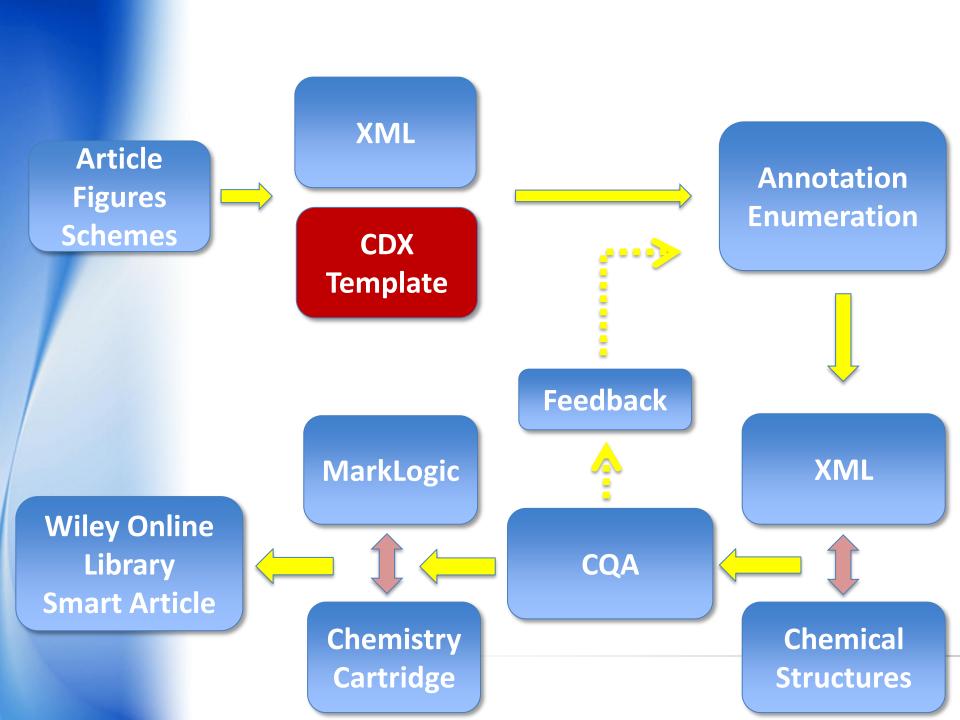
Recently, GB 16 (5),5 a new member of this attention from the pharmaceutical industry, and himbacine (1) has shown potent musc



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# Chemistry Enrichment Workflow



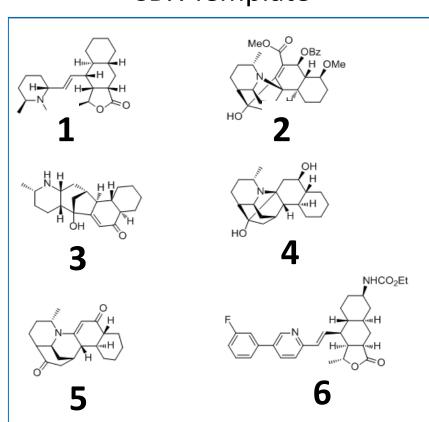




## Author's CDX File

# $MeO_{\checkmark}^{O}$ OBz H OMe HÓ himandrine (2) himbacine (1) ÓН NHCO<sub>2</sub>Et HÓ (-)-GB 13 (3) himgaline (4) SCH 530348 (6) GB 16 (5)

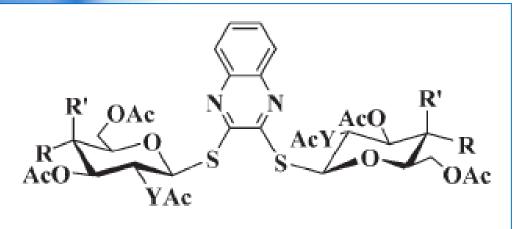
# **CDX Template**

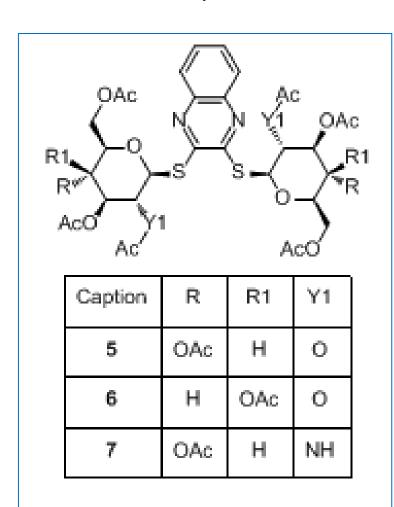




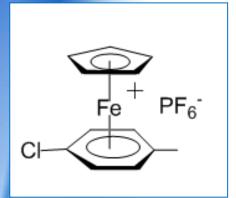
# **CDX Template**

# Author's CDX File





# Organometalic Chemistry



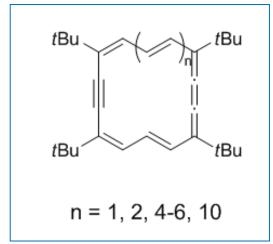
Ar

Ar

5

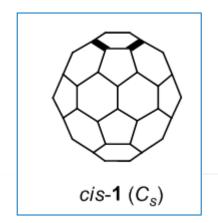
CDX
Template:
more...

# **Repeating Groups**

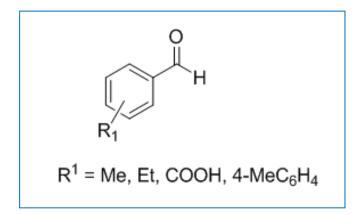


# Ar — Cú — Ar

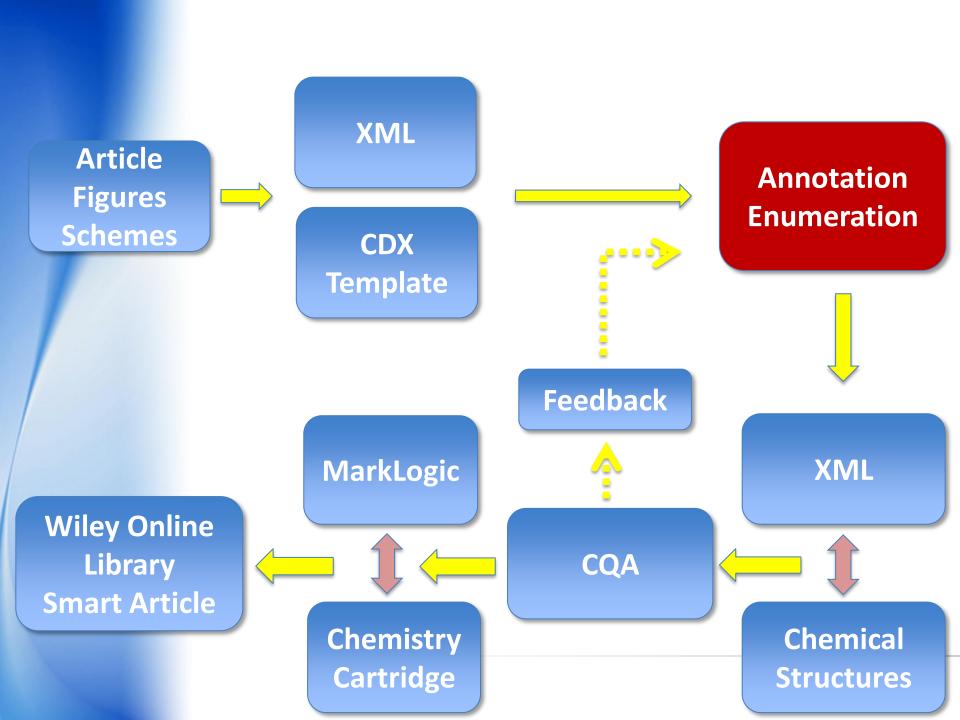
# Planar Fullerens

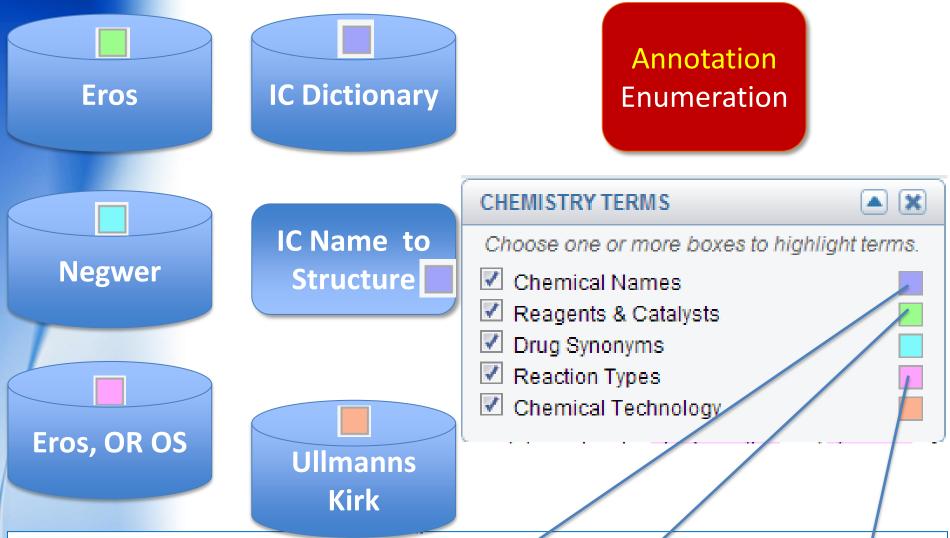


# Variable Points of Attachments

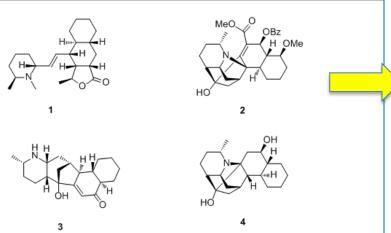


# WILEY

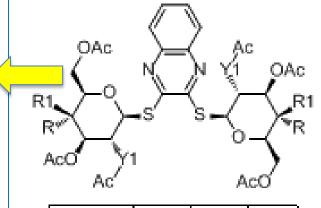




oxidation 19 process as indicated in Scheme 7. After the failed attempt of inhibiting the formation of 46 pyridinium chlorochromate (PCC) 17 or tetrapropylammonium perruthenate (TPAP)/N-methyl morpholic pleased to find that diol 43 could be converted into 44 with 85 % yield under modified Swern oxidation triethylamine (TEA) or N,N-diisopropylethylamine (DIPEA) as a base).20, 21 In this case, no 46 was de

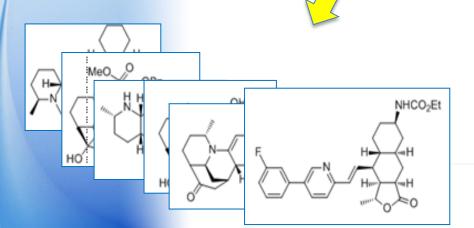


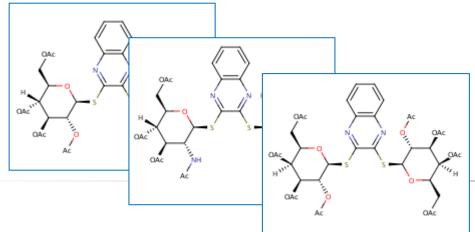
# Annotation Enumeration



Caption	R	R1	Y1
5	OAc	Ι	0
6	Н	OAc	0
7	OAc	I	Z

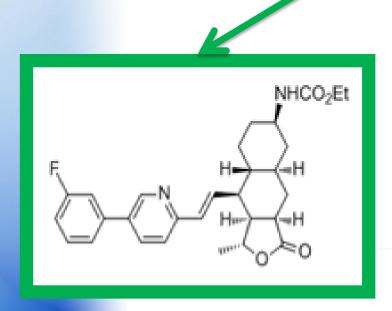
# **SDFiles**





### **XML**

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compound"/> </enrichedObject</pre>



# ➤ The Smart Article

```
Synthetic Studies toward Galbulimima Alkaloid (-)-GB 13 and (+ ... onlinelibrary.wiley.com/doi/10.1002/asia.../pdf - Diese Seite übersetzen
Alle Ergebnisse von onlinelibrary.wiley.com blockieren
von W Zi - 2011 - Ähnliche Artikel
14 Dec 2010 – Himbacine (1),[1] himandrine (2),[2] galbulimima alkaloid 13. ((¿)-GB 13, 3),[3] and ... galbulimima alkaloids that were isolated from the bark of ...
```

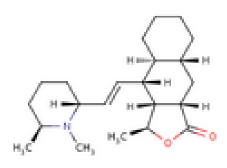
### Keywords:

alkaloids; condensation; Michael addition; reductive coupling; total synthesis

### Abstract

Condensation of (S)-3-aminobutan-1-ol with 1,3-cyclohexane-dione followed by an intramolecular alkylation afforded bicyclic enamine 32, which was converted into enone 35 through a diastereoselective hydrogenation. Mukaiyama—Michael addition of a bicyclic silyl enol ether to 35 and subsequent stereochemistry inversion by means of an oxidation/reduction strategy provided lactone 41. After reduction of

Cited By



# Compound 1

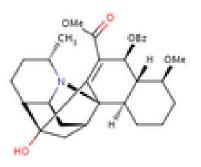
Molecular Weight: 345.5188

Molecular Formula: C22H35NO2

InChi key: FMPNFDSPHNUFOS-LPJDIUFZSA-N

View Compound

View compound in article | Full details



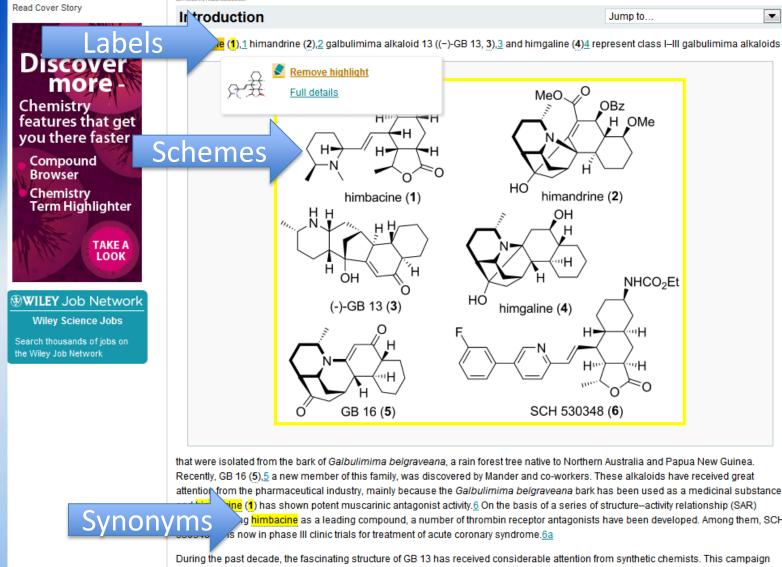
# Compound 2

Molecular Weight: 507.6179

Molecular Formula: C30H37NO6

InChi key: YYRMLJPFAHKRJD-BJOCAQAESA-N

View compound in article | Full details



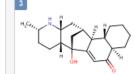
ing <mark>himbacine</mark> as a leading compound, a number of thrombin receptor antagonists have been developed. Among them, SCH

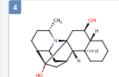
During the past decade, the fascinating structure of GB 13 has received considerable attention from synthetic chemists. This campaign has led to a number of total syntheses of himbacine, 1b-d five total syntheses of GB 13,3a-e two total syntheses of himgaline,3c, d and one total synthesis of himandrine.2d For the synthesis of (±)-GB 13, Mander and McLachlan used a Diels-Alder reaction of olefin 9 and diene 10 as the key step to set up the p-ring in the intermediate 8, and then converted the aromatic ring into the required piperidine ring

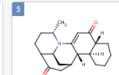


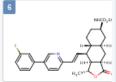


COMPOUND BROWSER 64 featured compounds in this article. ( show all 82 compounds)

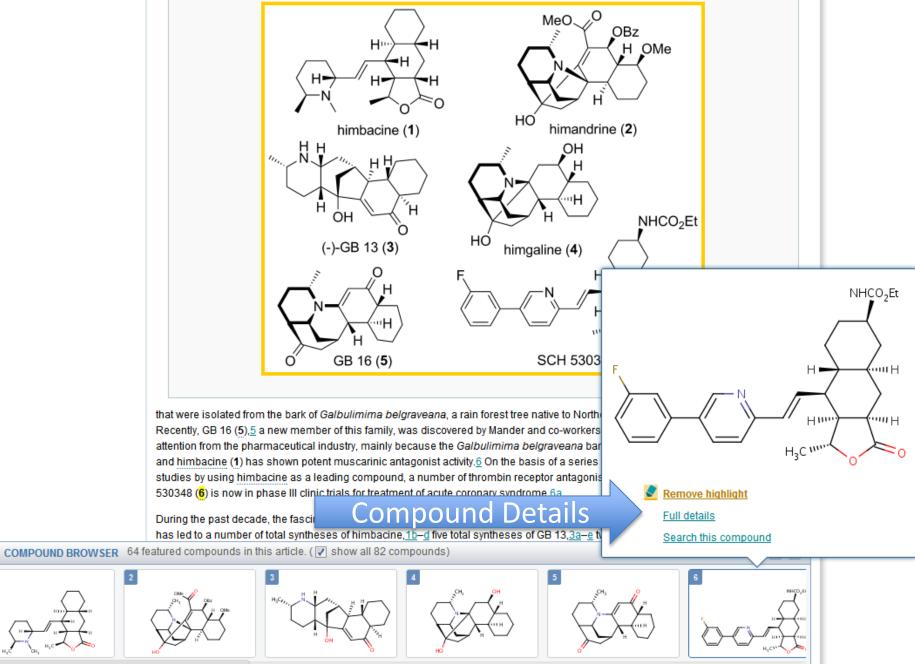




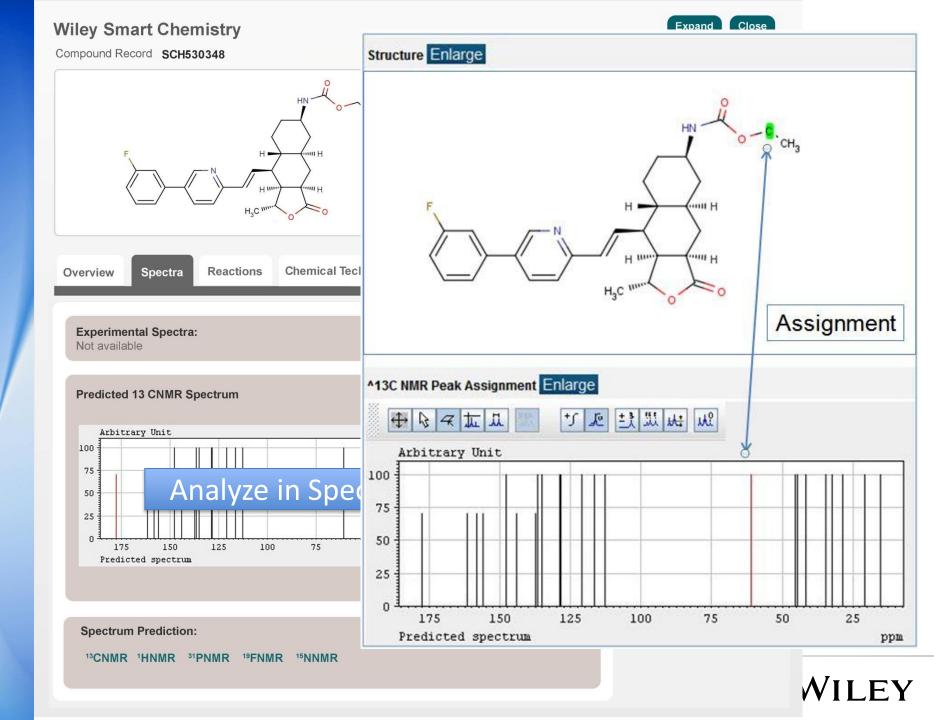


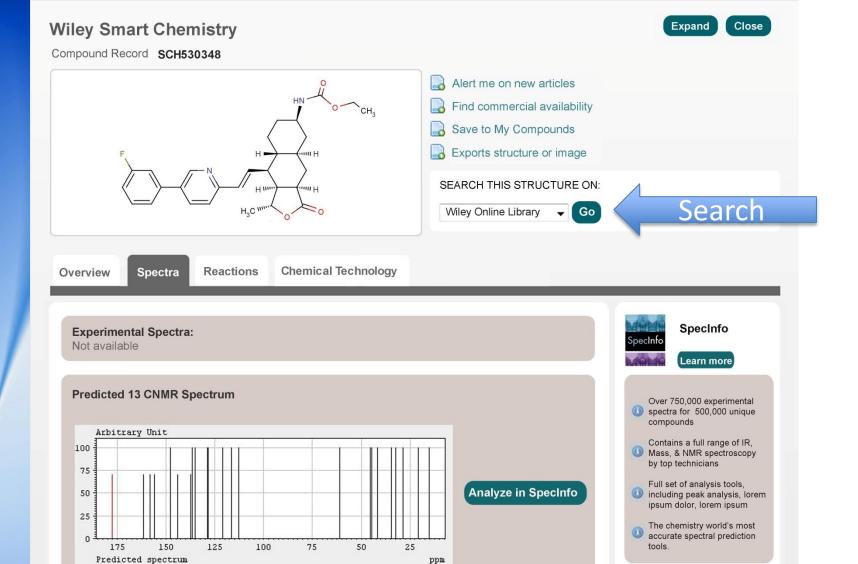






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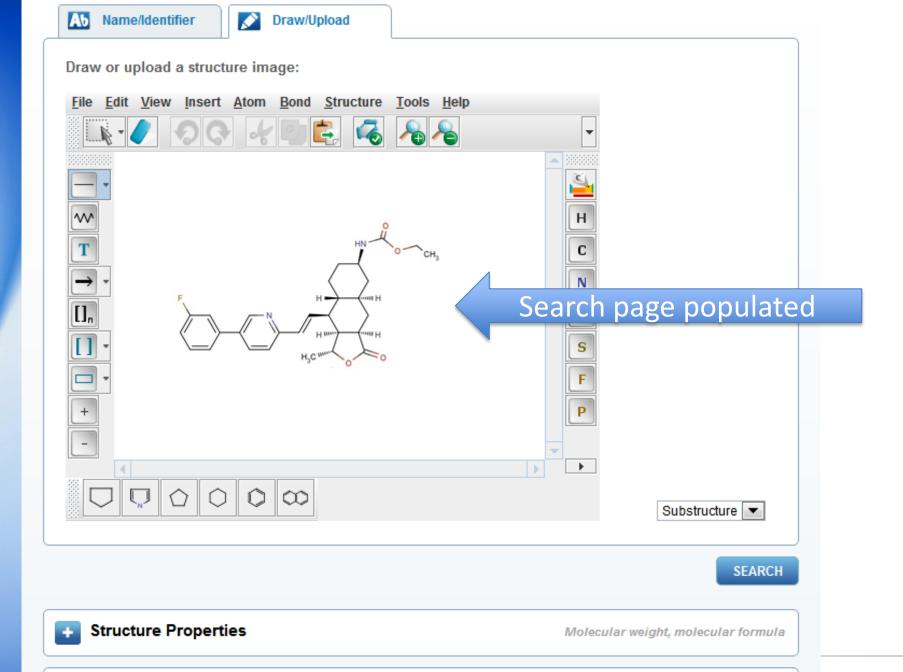


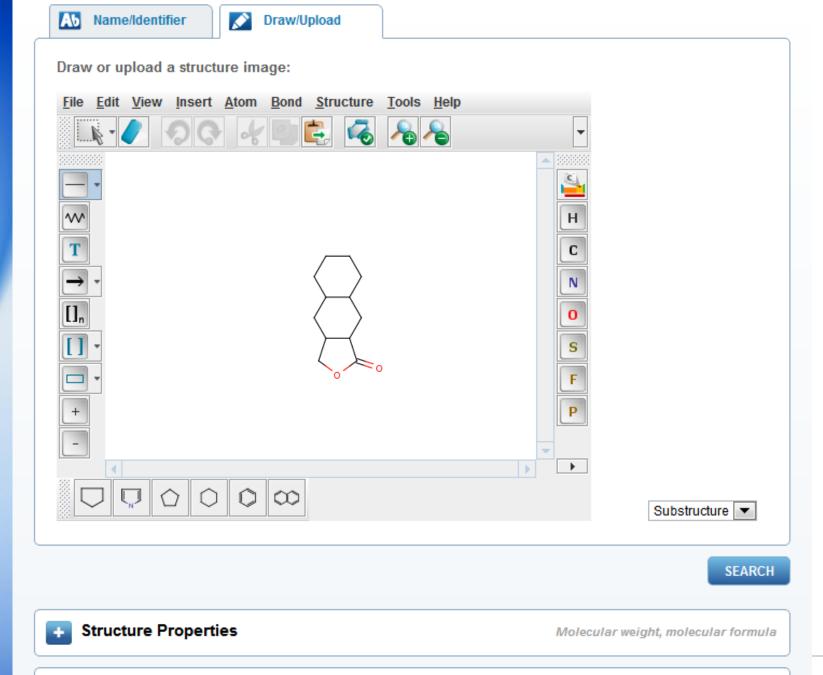
**Spectrum Prediction:** 

13CNMR 1HNMR 31PNMR 19FNMR 15NNMR

Other Predictions







FullText, publication titles, author, publication date



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PUBLICATIONS | BROWSE BY SUBJECT | RESOURCES | ABOUT US

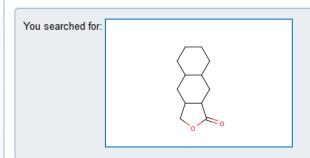
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# Chemistry Search | Search Tips

Search selected Online Library chemistry journals by chemical compounds.

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1 literature results for substructure search



**NEW SEARCH** 



### **Antiplatelet Agents**

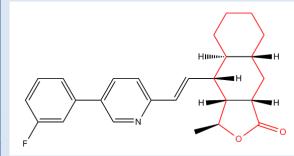
Standard Article

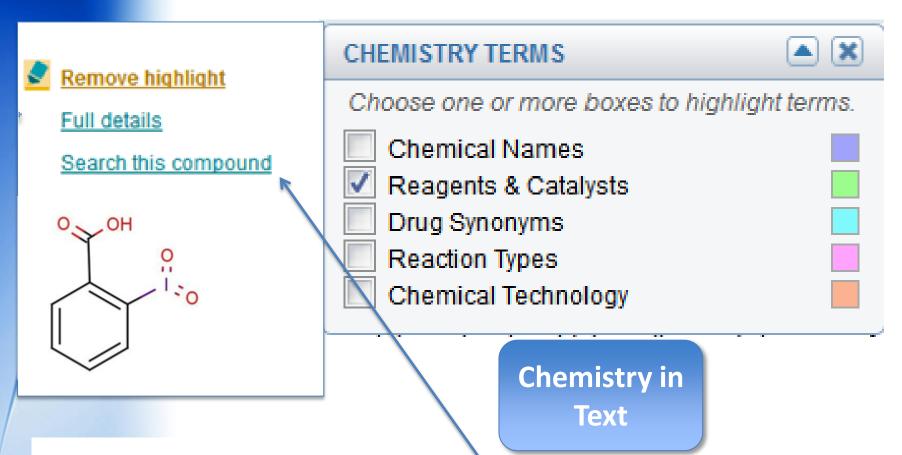
BURGER'S MEDICINAL CHEMISTRY, DRUG DISCOVERY AND DEVELOPMENT

Samuel Chackalamannil

Published Online: 15 SEP 2010, DOI: 10.1002/0471266949.bmc175

### Abstract | Full Article (HTML) | PDF(2461K) | References





Sml <sub>2</sub>-mediated carbonyl-alkene reductive coupling of **46** proceed diate **49**, which was oxidized with 2-iodoxybenzoic acid and then to 1.1% over 19 linear steps. By following the known procedure, our starting from lactone **41**, the first total synthesis of (+)-GB 16, a new





### **Current Search**



2-Iodobenzoic Acid (IBX) Standard Article

E-EROS ENCYCLOPEDIA OF REAGENTS FOR ORGANIC SYNTHESIS

Alex G. Fallis and Pierre E. Tessier

Published Online: 15 APR 2003, DOI: 10.1002/047084289X.rn00221

Abstract Full Article (HTML) References

### O-lodobencoic acid Standard Article

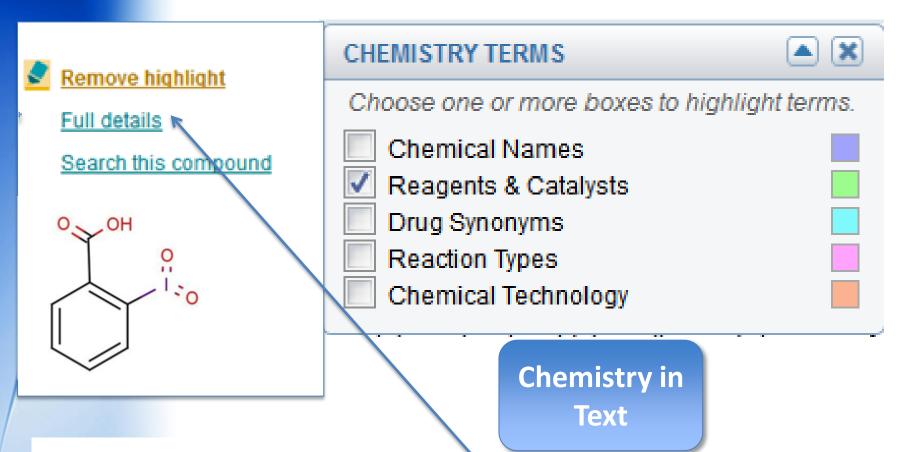
FIESER AND FIESER'S REAGENTS FOR ORGANIC SYNTHESIS

Tse-Lok Ho, Mary Fieser and Louis Fieser

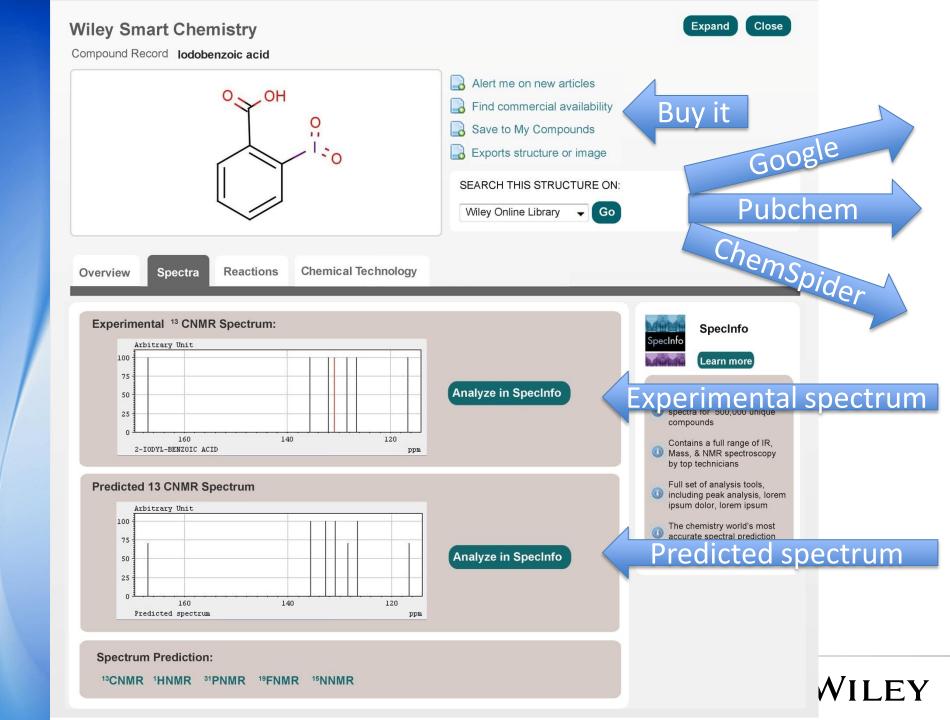
Published Online: 15 DEC 2006, DOI: 10.1002/9780471264194.fos05920

Abstract Full Article (HTML) References

More...



Sml 2-mediated carbonyl-alkene reductive coupling of 46 proceed diate 49, which was oxidized with 2-iodoxybenzoic acid and then to 1.1% over 19 linear steps. By following the known procedure, our starting from lactone 41, the first total synthesis of (+)-GB 16, a new



# Acknowledgement



Text Annotation
Scheme Enumeration



Jchem Chemistry Cartridge Marvin

Thank you for your attention!