

The background of the slide features a large, semi-transparent molecular structure. It consists of numerous grey spheres representing atoms, connected by thin grey rods representing chemical bonds. The structure is arranged in a complex, interconnected pattern, typical of a crystal lattice or a large organic molecule. In the top-left corner, there is a smaller, more detailed molecular model with orange and blue spheres.

Information Portals for the Chemical Community

Bill Town, Jan Kuras

ChemWeb Inc.

84 Theobalds Road, London WC1X 8RR, UK

ACS Fall National Meeting, 2001



Defining a Portal

por·tal (pôrtl, pr-) *noun*

- A doorway, entrance, or gate, especially one that is large and imposing.
- An entrance or a means of entrance: the local library, a portal of knowledge.
- The portal vein.
- A website considered as an entry point to other websites, often by being or providing access to a search engine.

www.dictionary.com



Defining a Portal

portal

A web site that aims to be a "doorway" to the World-Wide Web, typically offering a search engine and/or links to useful pages, and possibly news or other services. These services are usually provided for free in the hope that users will make the site their default home page or at least visit it often. Most portals on the Internet exist to generate advertising income for their owners, others may be focused on a specific group of users and may be part of an intranet or extranet.

Free On-line Dictionary of Computing <http://www.foldoc.org>



An overview

- Defining a 'portal'
- Review of science and chemistry portals
- Analysis of ChemWeb.com with respect to portal criteria
- Conclusions
- Questions and discussion



What is a Portal?

- Locate appropriate information
- Conduct comprehensive searches
- An Internet site with one or more of the following features:
 - Registration
 - User Profiling
 - Customisation
 - Search functionality
 - Useful content
 - Linking



Science Portals...many & varied

- TheScientificWorld.com
- Ingenta.com
- Chemistry.org
- ChemIndustry.com
- ChemSoc.org
- ChemWeb.com
- ...and many others...

A quick comparison of Portals

	Registration	User Profile	Customisation	Search	Content	Links
TheScientificWorld	✓	✓		✓	✓	✓
Ingenta.com	✓	✓	✓	✓	✓	
Chemistry.org				✓	✓	✓
ChemIndustry.com				✓		✓
ChemSoc.org	✓	✓		✓	✓	✓
ChemWeb.com	✓	✓		✓	✓	✓

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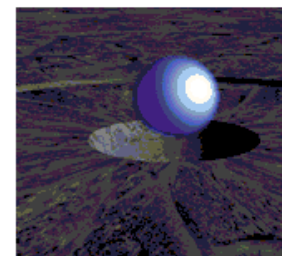
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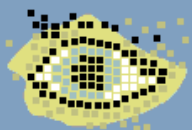
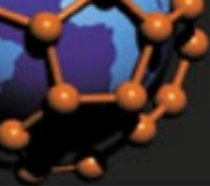
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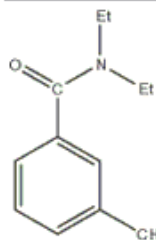
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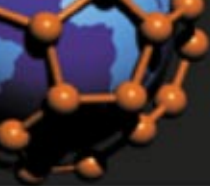
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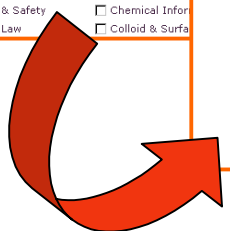
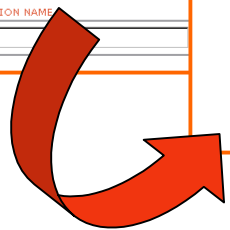
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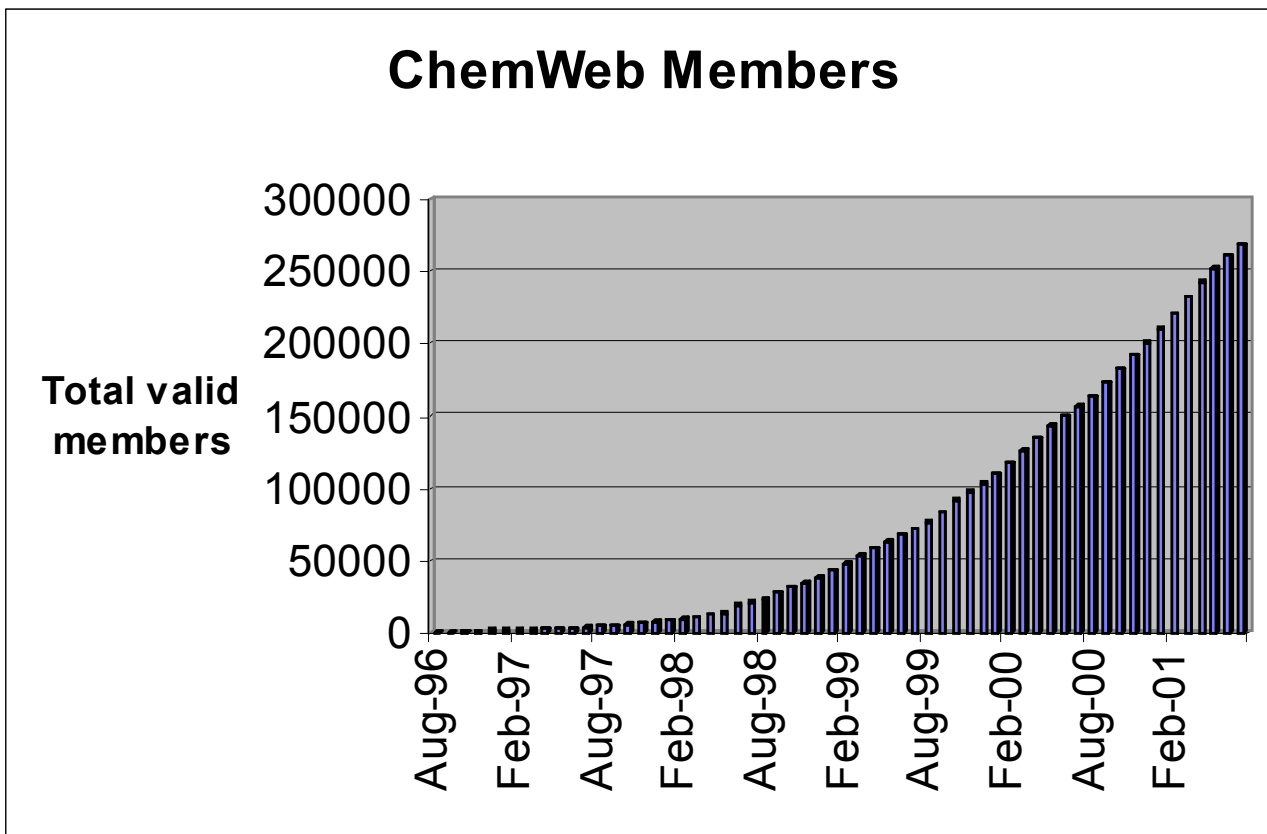
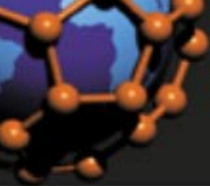
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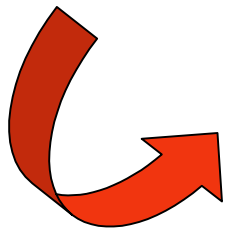
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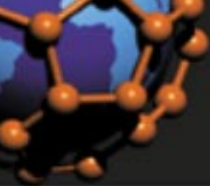
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Asymmetric synthesis of (2*S*,3*S*)-3-hydroxy-2-phenylpiperidine via ring expansion

Jaemoon Lee,* Thoa Hoang, Stephanie Lewis, Steven A. Weissman, David Askin, R. P. Volante and P. J. Reider

Department of Process Research, Merck Research Laboratories, Merck & Co., Inc., PO Box 2000 Rahway, NJ 07065, USA

Received 5 June 2001; accepted 5 July 2001

Abstract—A catalytic highly enantioselective (99% ee) preparation of *N*-*tert*-butyloxycarbonyl-(2*S*,3*S*)-3-hydroxy-2-phenylpiperidine and *N*-*tert*-butyloxycarbonyl-(2*S*)-2-phenylpiperidin-3-one was developed using an intramolecular epoxide opening followed by ring expansion. The *cis*-epoxide starting material was available in high ee via Jacobsen epoxidation. © 2001 Elsevier Science Ltd. All rights reserved.

Functionalized piperidines have attracted increasing interest as synthetic targets because of important activity as pharmacophores in medicinally active compounds. Various methods have been developed for the synthesis of substituted piperidines in a diastereo- and enantioselective manner.¹ Neuropeptide substance-P (Neurokinin-1) receptor antagonists **1**² and **2**³ have been prepared via the piperidine intermediates (2*S*,3*S*)-3-hydroxy-2-phenyl-

Although a number of methods have been developed to access compound **3** using the chiral pool method or racemic synthesis followed by resolution, the challenge of a catalytic asymmetric synthesis of **3** and **4** remained.^{2b,4} In this report, we describe a catalytic, highly enantioselective preparation of these important intermediates.

We envisioned a retrosynthetic strategy (Scheme 1)

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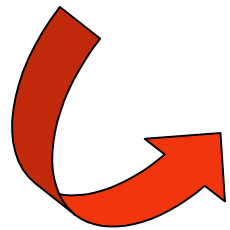
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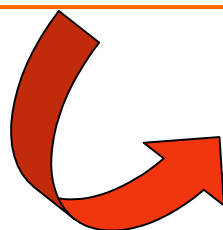
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Self-Assembly in Self-Organized Inorganic Systems: A View of Programmed Metallosupramolecular Architectures

Vanderlei Gageiro Machado, P N W Baxter, J M Lehn

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Submitted on 10 July 2001/00:04

Abstract

This review summarizes the recent advances that have been performed on self-assembled inorganic systems, especially on helical systems, metallo-exoreceptors and on architectures formed from multiple components. In addition, applications as well as the perspectives for these designed systems are also discussed.



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