Part II, Chapters 2.11-13, App. D ACS Style Guide, Chapter 14

References, Bibliography & Search

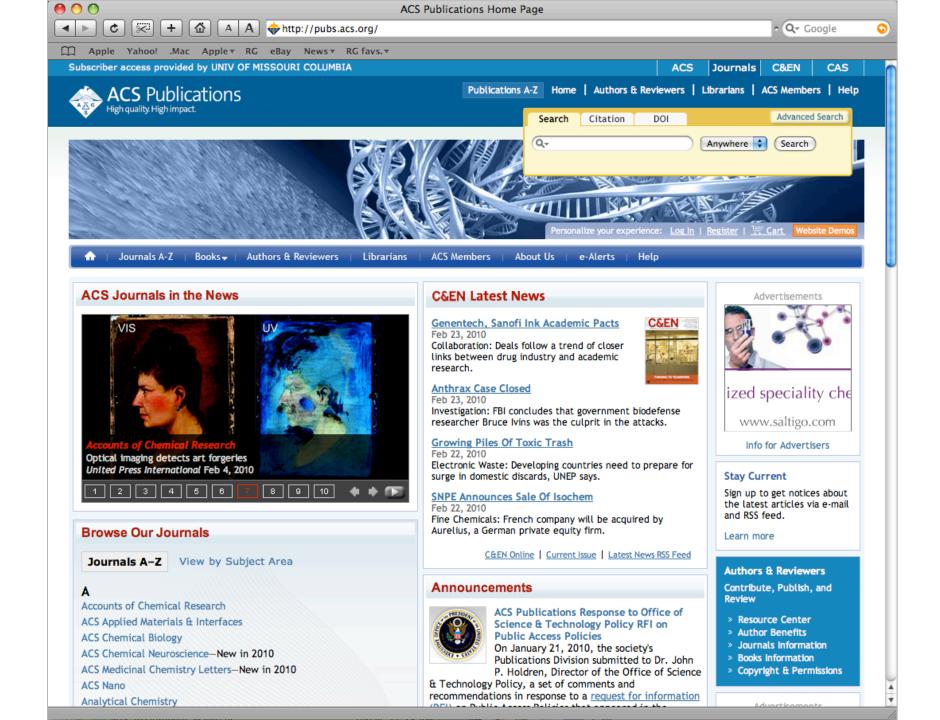
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Chemical Abstracts Vol. 82, 1975 Page 408

72640z Phenylacetones from 1-phenylpropenes. Kojima, Atsushi; Katagami, Tsutomu; Okubo, Ichiro (Mitsui Pharmaceuticals, Inc. and Mitsui Toatsu Chemicals, Inc.) Japan. Kokai 74 100,044 (Cl. 16 C54), 20 Sep 1974, Appl. 73 12,622, 31 Jan 1973; 3 pp. Phenylacetones I (R = lower alkyl; or

R₂ = CH₂) were prepd. by peracid oxidn. of 1-phenylpropenes II in a halohydrocarbon solvent in the presence of a carbonate salt, followed by heating with mineral acid. Thus, a peracid soln. was prepd. from 250 g 86% HCO₂H and 130 g 35% H₂O₂ and added at 30-40° to a stirred mixt. of 162.2 g isosafrole and 15 g Na₂CO₃ in 500 ml CH₂ClCH₂Cl. The mixt. was stirred at 35-40° for 6 hr and the solvent evapd. Heating the residue with 1.8 kg 15% aq. H₂SO₄ for 2 hr gave 73% I (R₂ = CH₂), 95.7% pure. Also prepd. was I (R = Me). Ikuo Matsumoto





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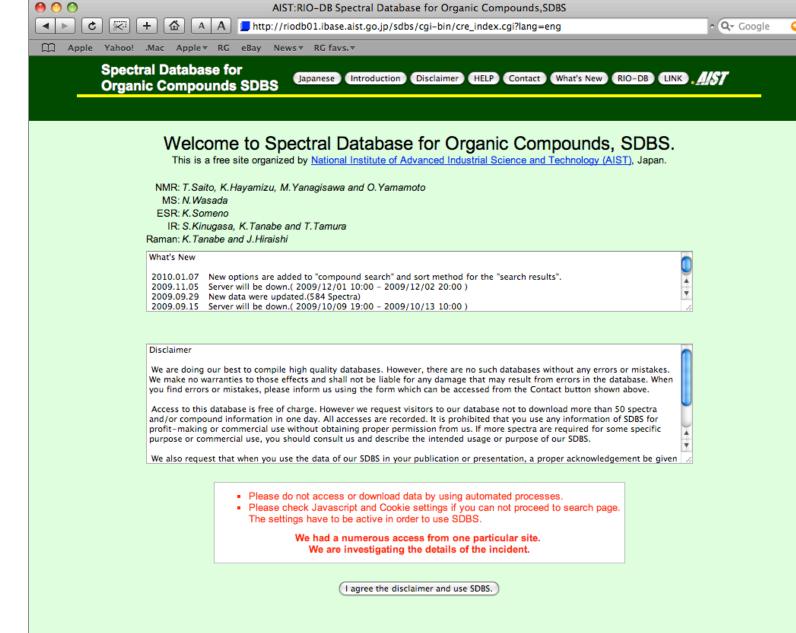


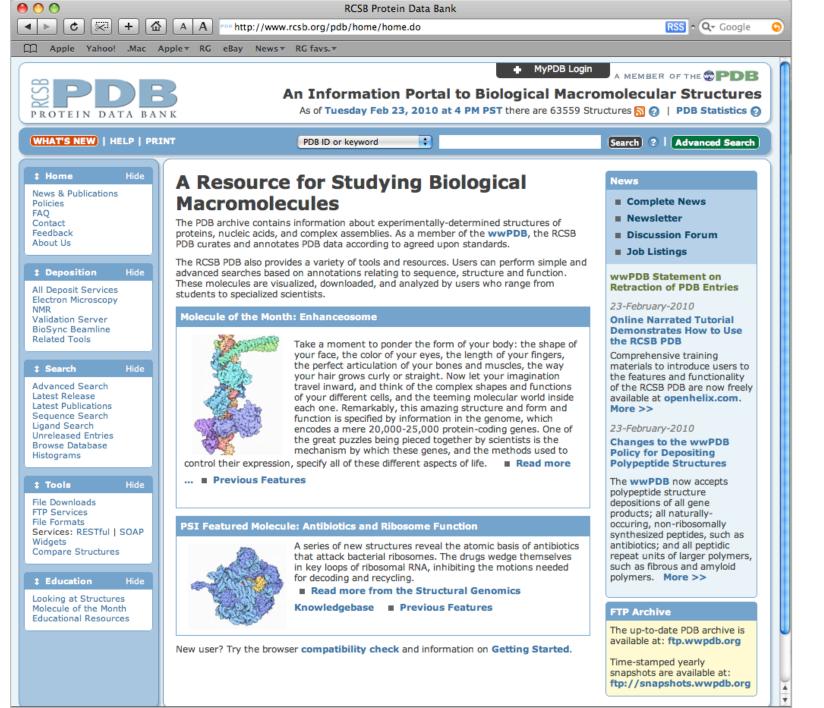


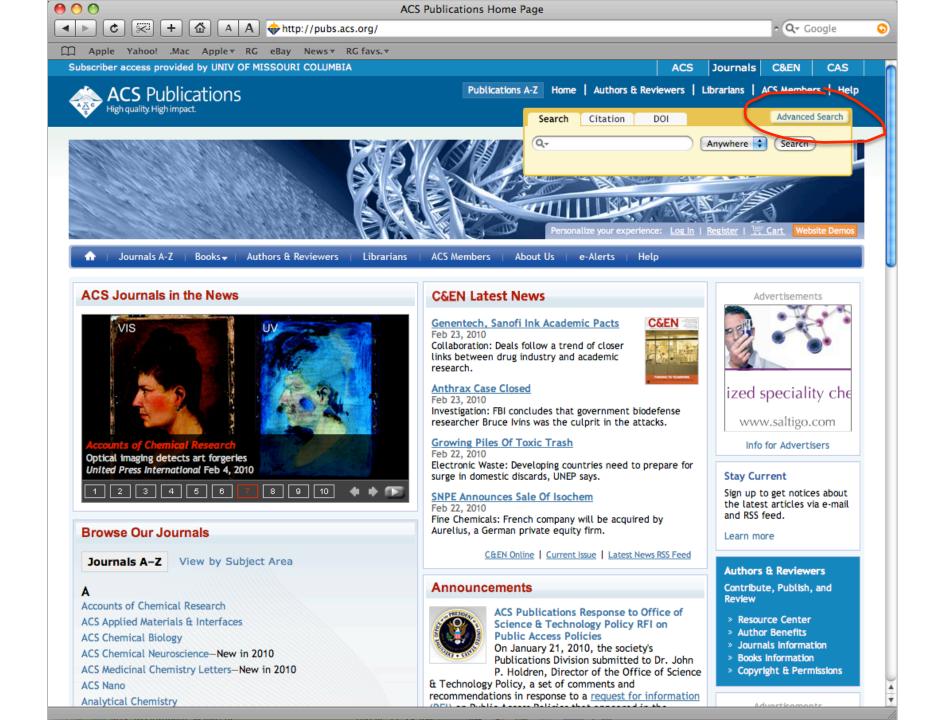
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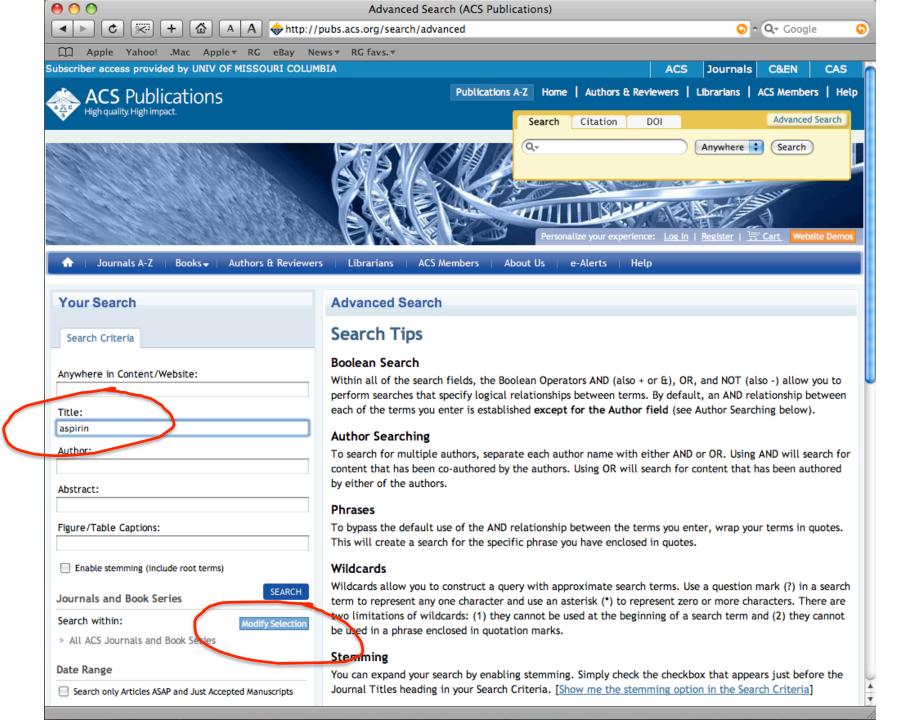
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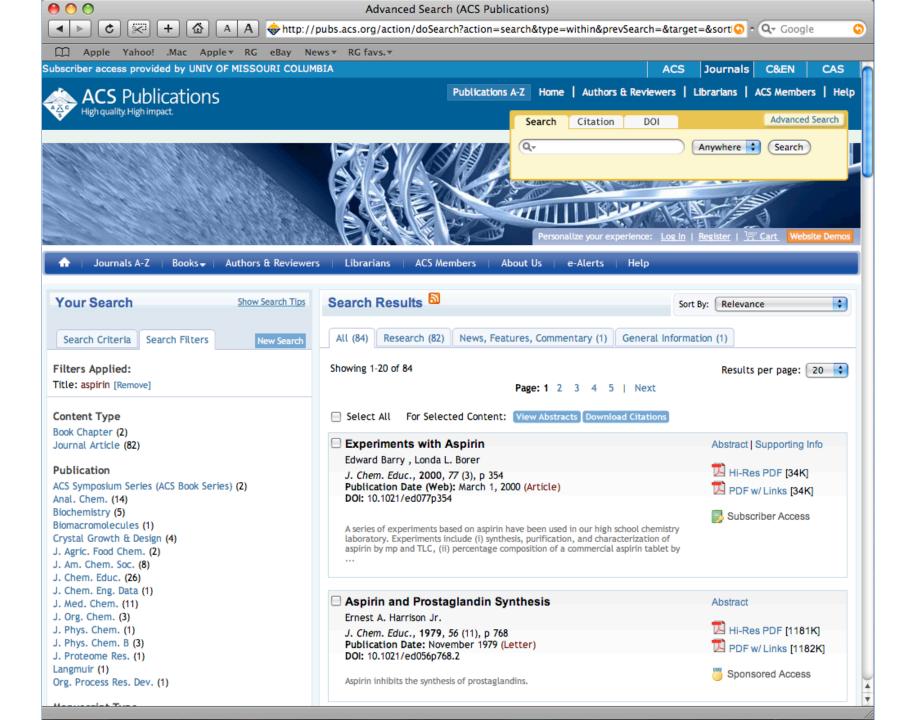
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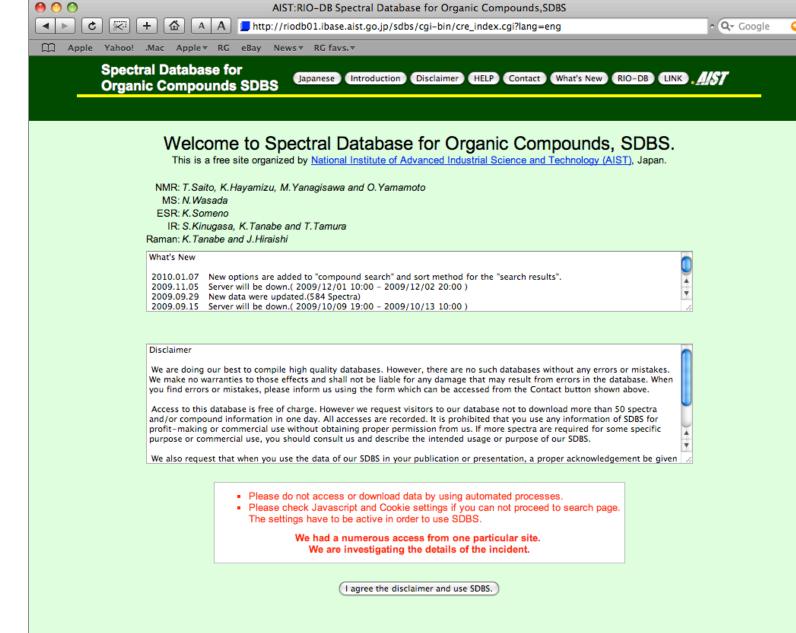


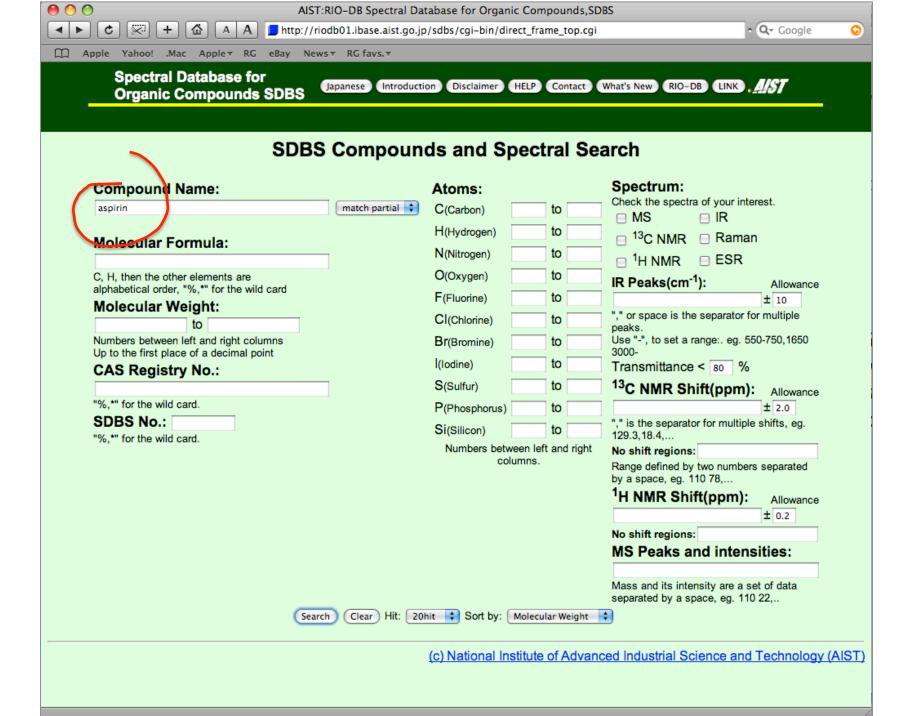


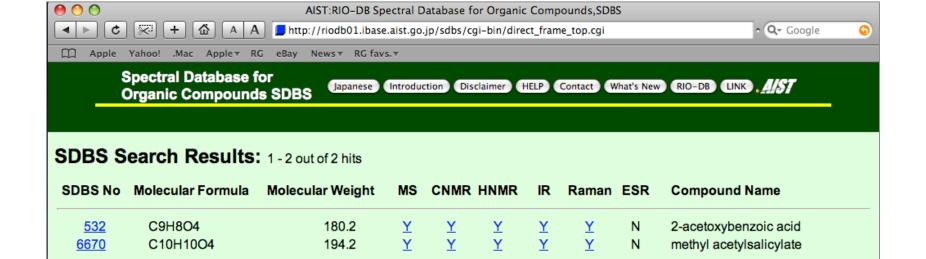






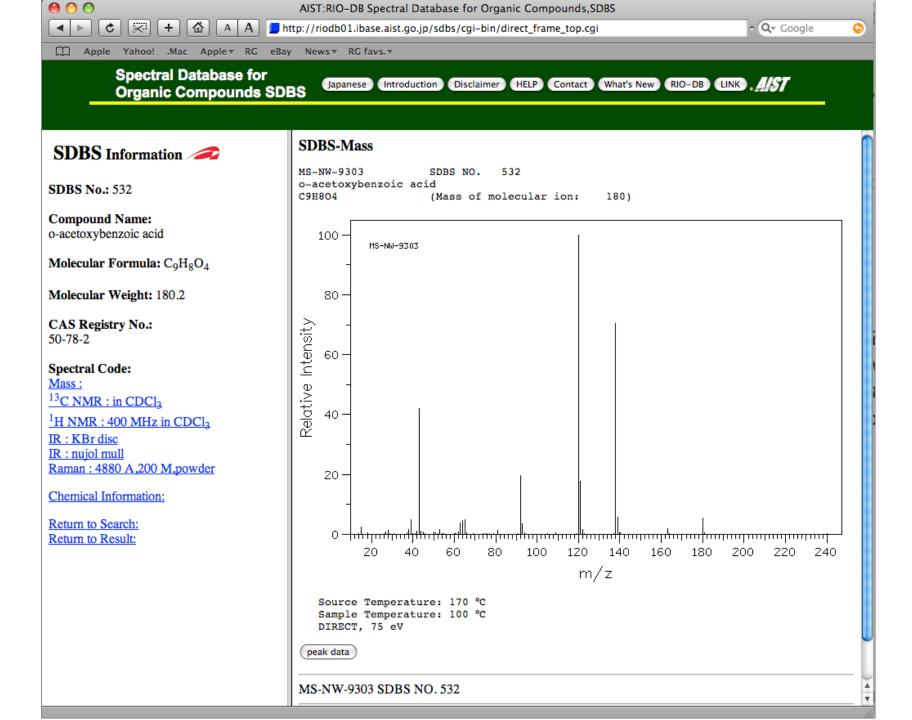


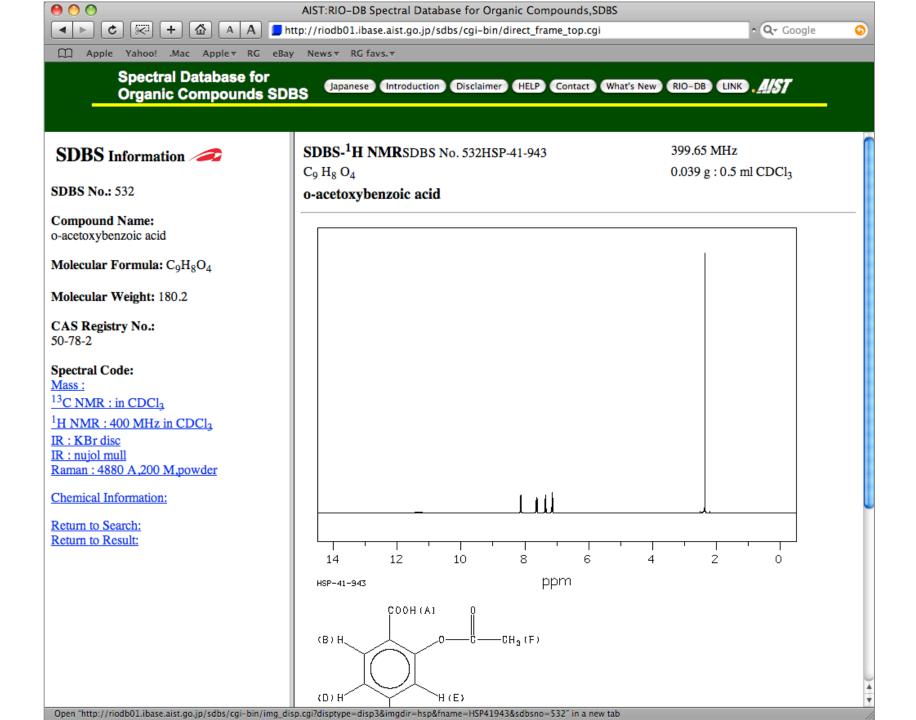




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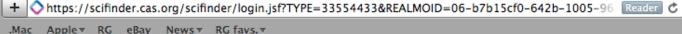


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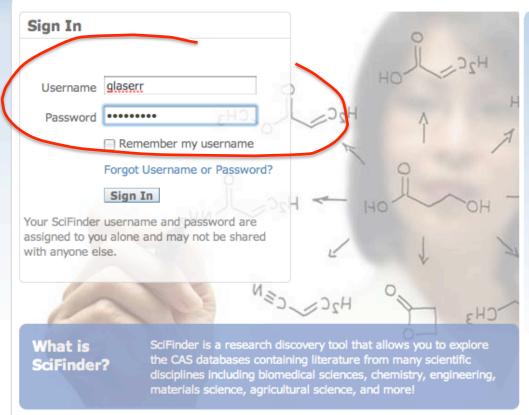




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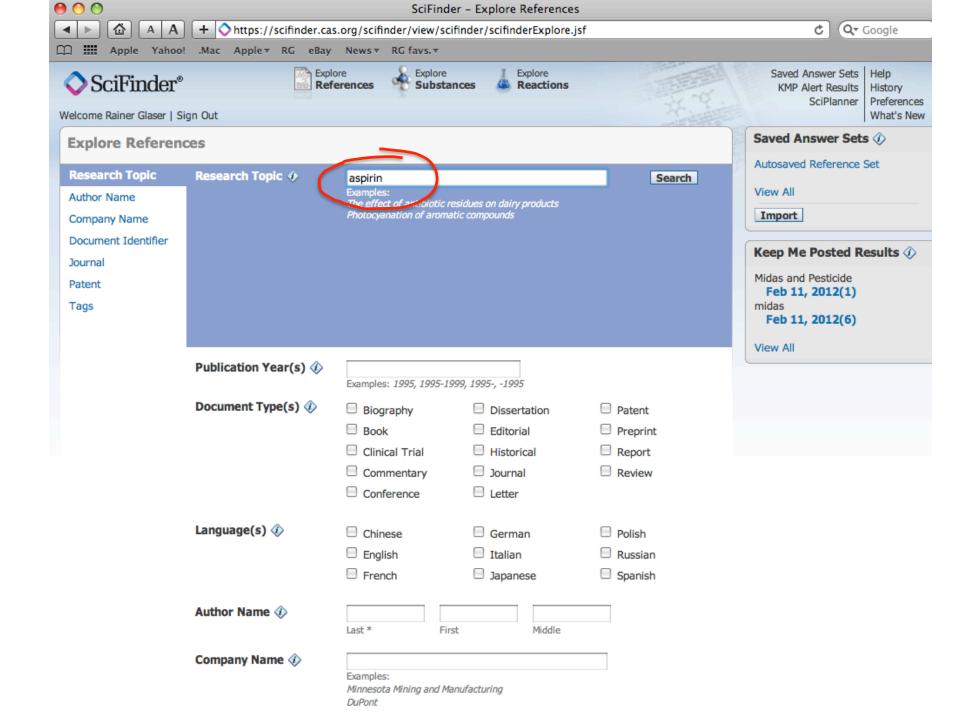
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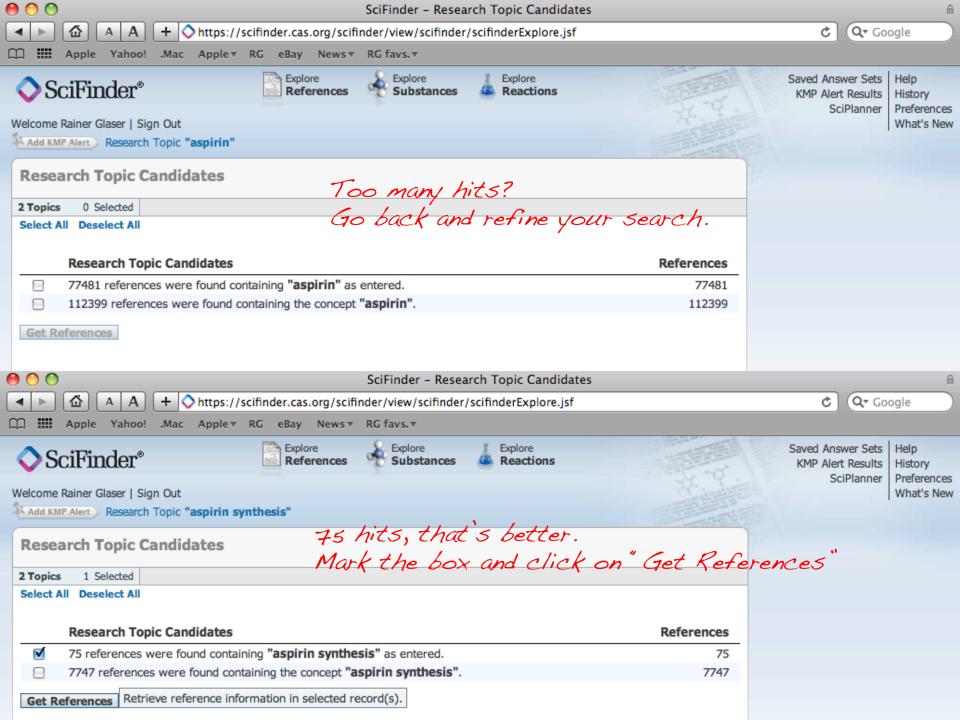
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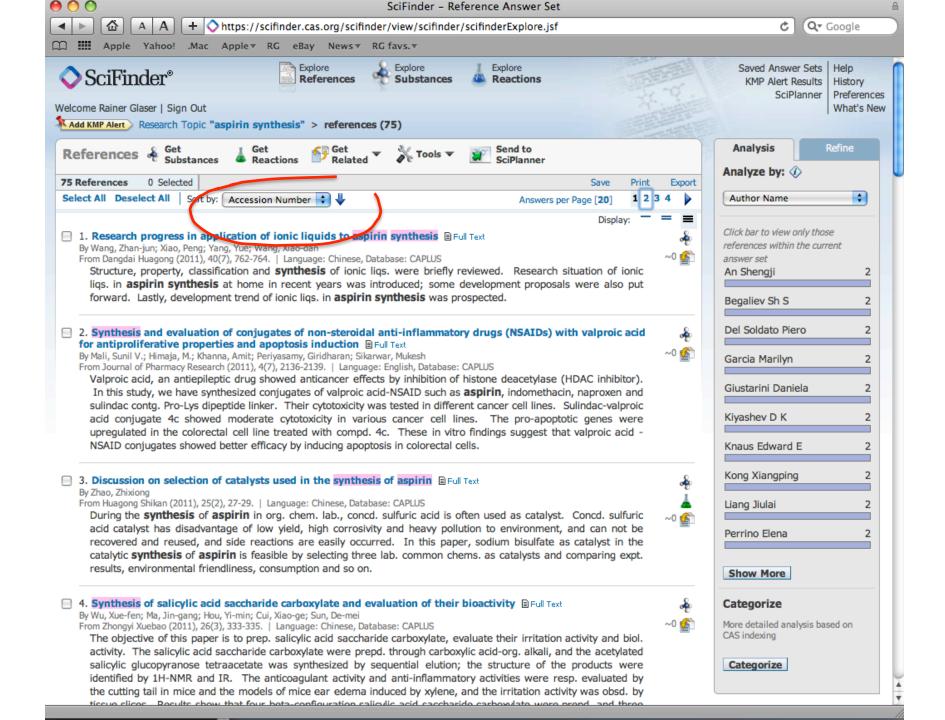
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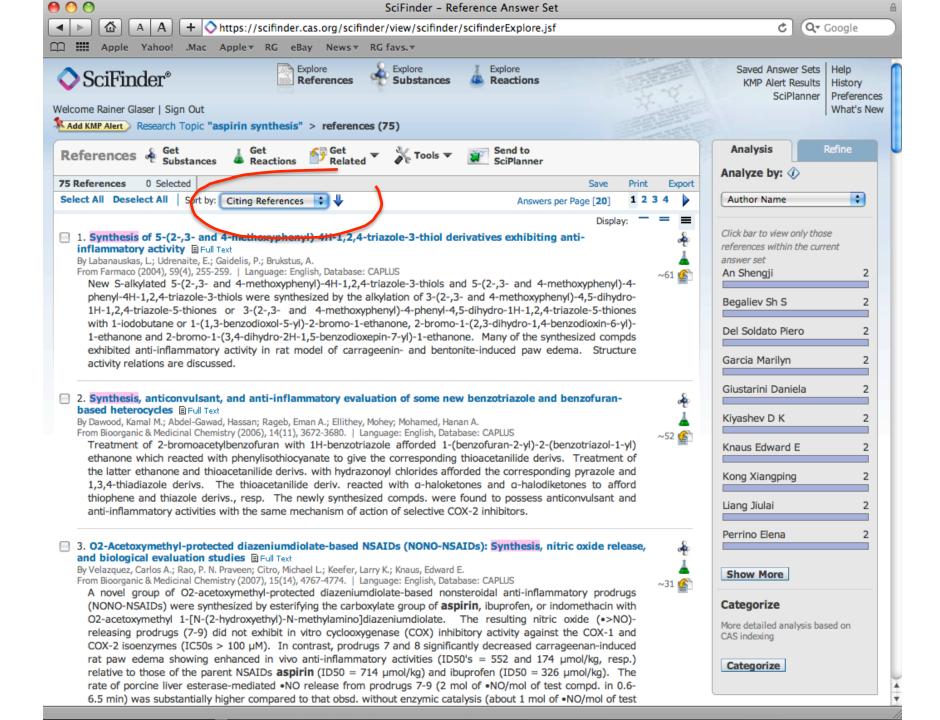
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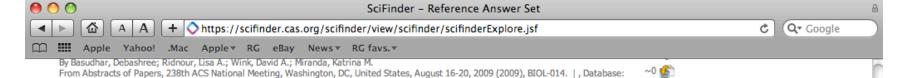
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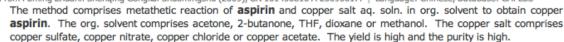
Aspirin belongs to the class of non-steroidal anti inflammatory drugs (NSAIDs), which are commonly used to relieve pain and inflammation. NSAIDs also inhibit proliferation of cancer cells and decrease risk of Alzheimer's disease in adults before the onset of age-assocd, inflammatory processes within the brain. Although NSAIDs has been shown to be effective against these conditions, they can have serious side effects, particularly gastrointestinal ulcers with chronic use. To improve the safety profile of these drugs, a second generation of NSAIDs (COXIBs) has been synthesized. Despite the initial success of COXIBs, long term cardiovascular side effects have led to withdrawal of several such drugs from the market. Nitric oxide (NO) and nitroxyl (HNO) are important modulators of numerous physiol. functions such as vasodilation, inhibition of platelet aggregation and tumor regression. In the central nervous system, NO is a neurotransmitter involved in memory function. In this regard, adducts of NSAIDs and COXIBs with NO have been synthesized that will allow retention of traditional analgesic properties and redn. of side effects. In this presentation, synthesis and NO and HNO release properties of new NO and HNO-aspirin adducts will be discussed. Also the effects of these mols. on different signaling pathways will be presented to

understand the mechanism of action.

■ 19. One step method for synthesis of copper aspirin Full Text

CAPLUS

By Zhang, Jingdong; Wang, Sihong; Zhang, Xiaoyong; Yao, Yanhong; Piao, Yingai; Li, Donghao From Faming Zhuanli Shenqing Gongkai Shuomingshu (2009), CN 101456816 A 20090617. | Language: Chinese, Database: CAPLUS





20. Dinitroglyceryl and diazen-1-ium-1,2-diolated nitric oxide donor ester prodrugs of aspirin, indomethacin and ibuprofen: Synthesis, biological evaluation and nitric oxide release studies Pull Text

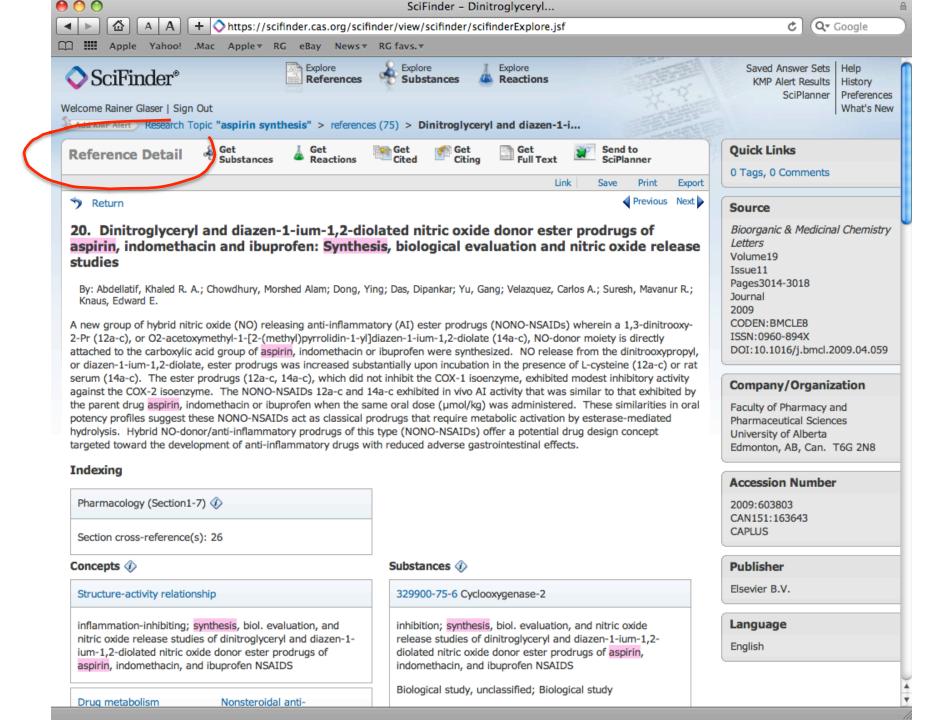
By Abdellatif, Khaled R. A.; Chowdhury, Morshed Alam; Dong, Ying; Das, Dipankar; Yu, Gang; Velazquez, Carlos A.; Suresh, Mavanur R.; Knaus, Edward E.

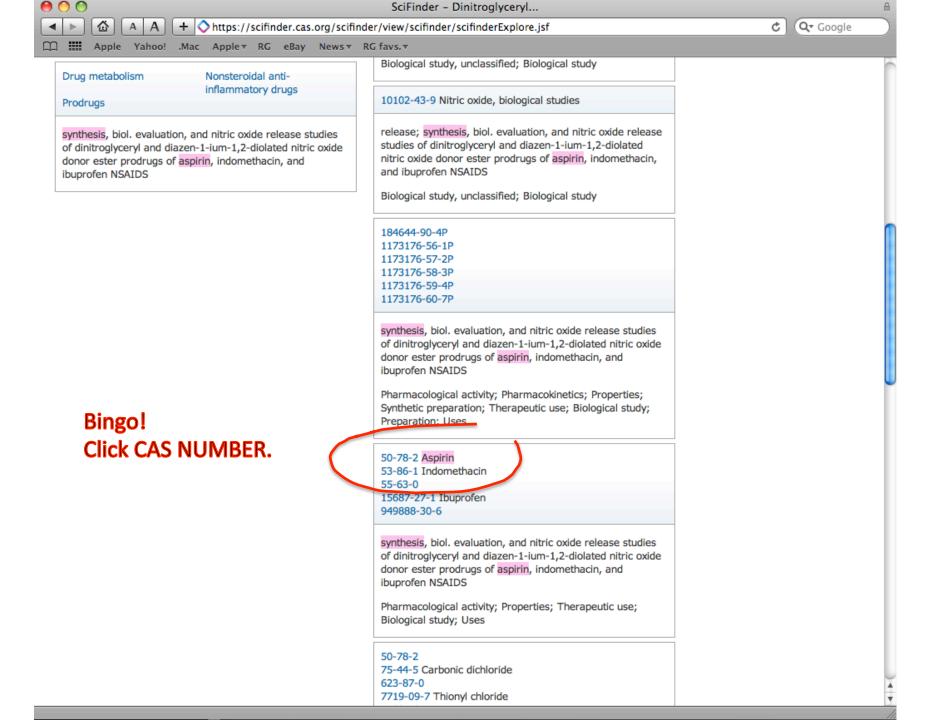
From Bioorganic & Medicinal Chemistry Letters (2009), 19(11), 3014-3018. | Language: English, Database: CAPLUS

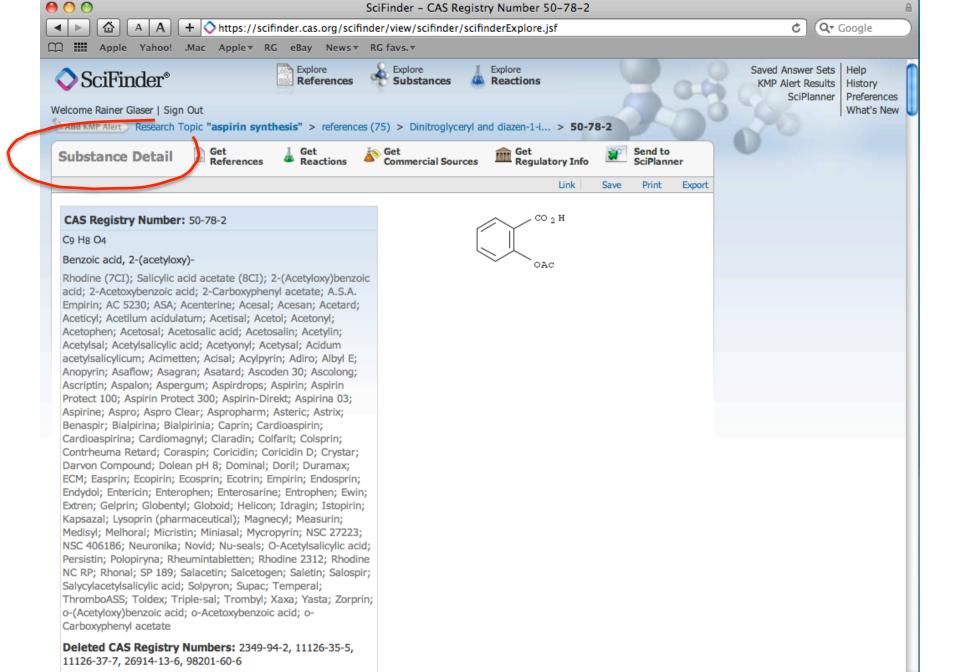
A new group of hybrid nitric oxide (NO) releasing anti-inflammatory (AI) ester prodrugs (NONO-NSAIDs) wherein a 1,3-dinitrooxy-2-Pr (12a-c), or O2-acetoxymethyl-1-[2-(methyl)pyrrolidin-1-yl]diazen-1-ium-1,2-diolate (14a-c), NOdonor moiety is directly attached to the carboxylic acid group of aspirin, indomethacin or ibuprofen were synthesized. NO release from the dinitrooxypropyl, or diazen-1-ium-1,2-diolate, ester prodrugs was increased substantially upon incubation in the presence of L-cysteine (12a-c) or rat serum (14a-c). The ester prodrugs (12ac, 14a-c), which did not inhibit the COX-1 isoenzyme, exhibited modest inhibitory activity against the COX-2 isoenzyme. The NONO-NSAIDs 12a-c and 14a-c exhibited in vivo AI activity that was similar to that exhibited by the parent drug aspirin, indomethacin or ibuprofen when the same oral dose (µmol/kg) was administered. These similarities in oral potency profiles suggest these NONO-NSAIDs act as classical prodrugs that require metabolic activation by esterase-mediated hydrolysis. Hybrid NO-donor/anti-inflammatory prodrugs of this type (NONO-NSAIDs) offer a potential drug design concept targeted toward the development of anti-inflammatory drugs with reduced adverse gastrointestinal effects.



1 2 3 4







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Document Types: Book, Conference, Dissertation, Journal, Patent, Preprint, Report

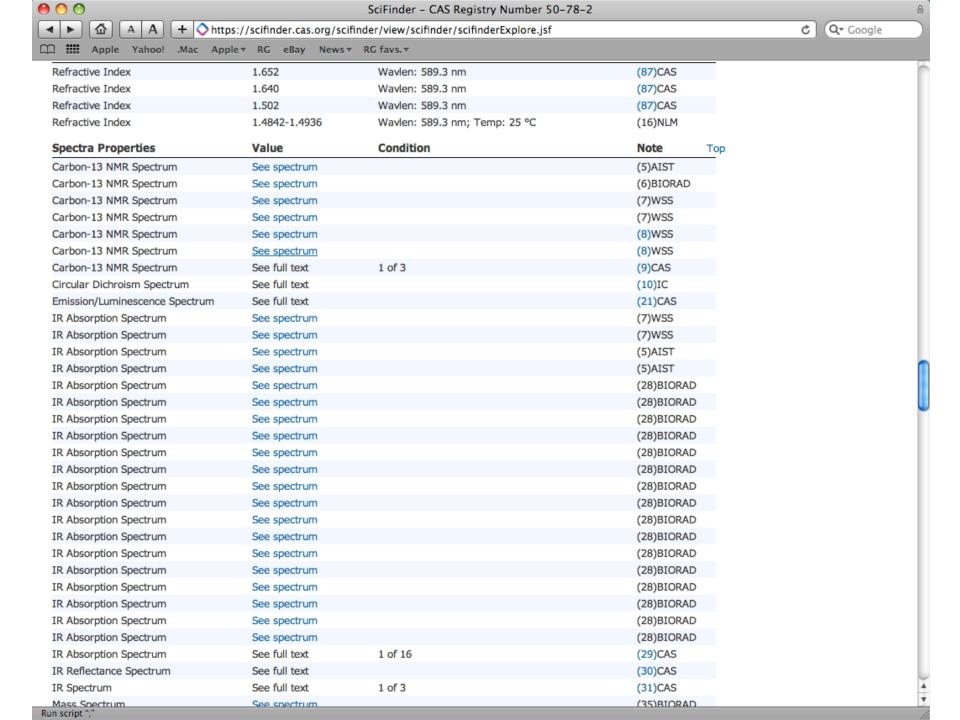
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Combinatorial Study	✓		✓	
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Miscellaneous	✓	✓		✓
Occurrence	✓	✓		✓
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Prophetic in Patents	1			
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Uses	1	✓	✓	✓

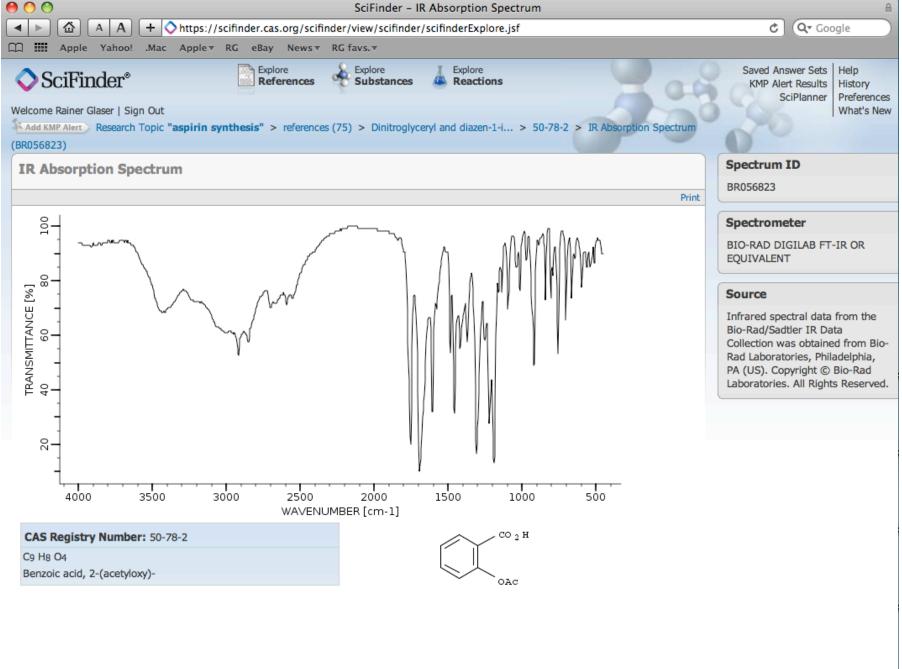
▶ Bioactivity Indicators NEW ■

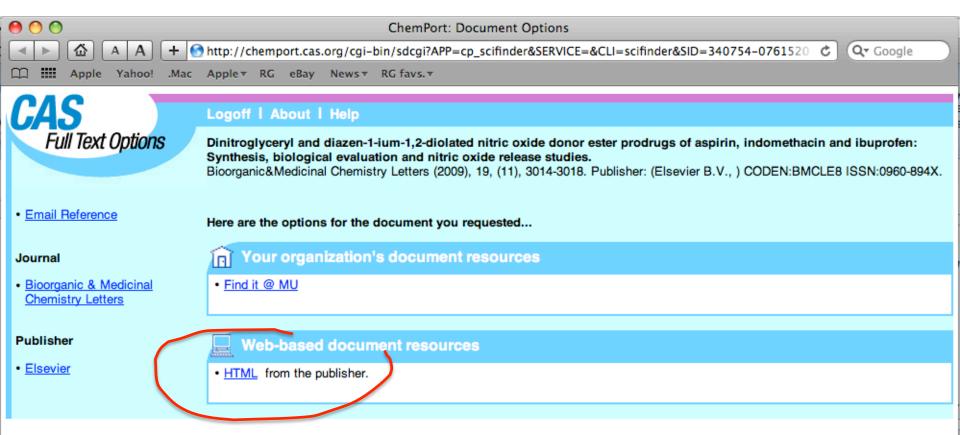
► Target Indicators NEW

Predicted Properties: Biological Chemical Density Lipinski and Related Spectra Structure-related Thermal

Biological Properties	Value	Condition	Note	Тор
Bioconcentration Factor	6.79	pH 1 Temp: 25 °C	(94)	
Bioconcentration Factor	6.60	pH 2 Temp: 25 °C	(94)	
Bioconcentration Factor	5.13	pH 3 Temp: 25 °C	(94)	
Bioconcentration Factor	1.59	pH 4 Temp: 25 °C	(94)	
Bioconcentration Factor	1.0	pH 5 Temp: 25 °C	(94)	
Bioconcentration Factor	1.0	pH 6 Temp: 25 °C	(94)	
Bioconcentration Factor	1.0	pH 7 Temp: 25 °C	(94)	
Bioconcentration Factor	1.0	pH 8 Temp: 25 °C	(94)	
Bioconcentration Factor	1.0	pH 9 Temp: 25 °C	(94)	
Bioconcentration Factor	1.0	pH 10 Temp: 25 °C	(94)	
Chemical Properties	Value	Condition	Note	Тор
Koc	137	pH 1 Temp: 25 °C	(94)	
Koc	133	pH 2 Temp: 25 °C	(94)	
Koc	103	pH 3 Temp: 25 °C	(94)	
Koc	32.1	pH 4 Temp: 25 °C	(94)	

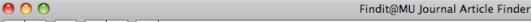






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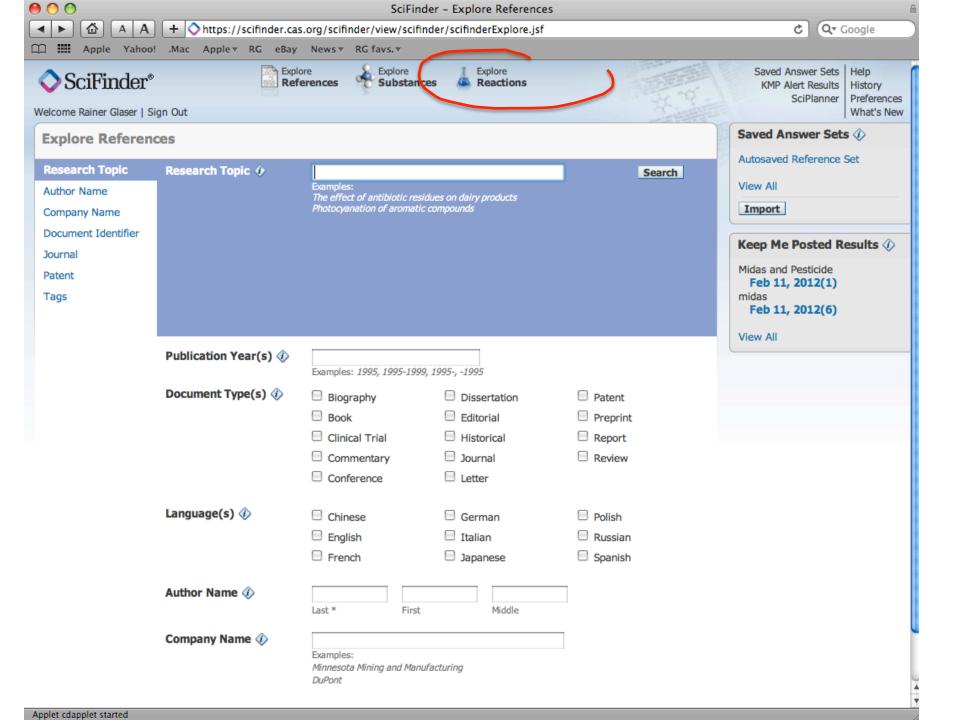
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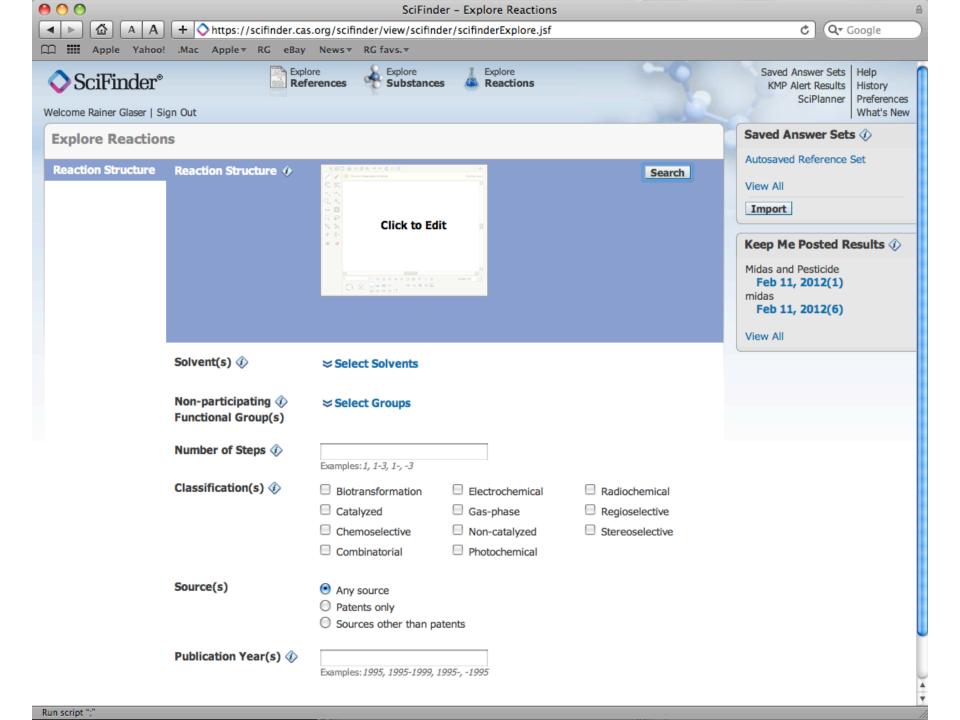
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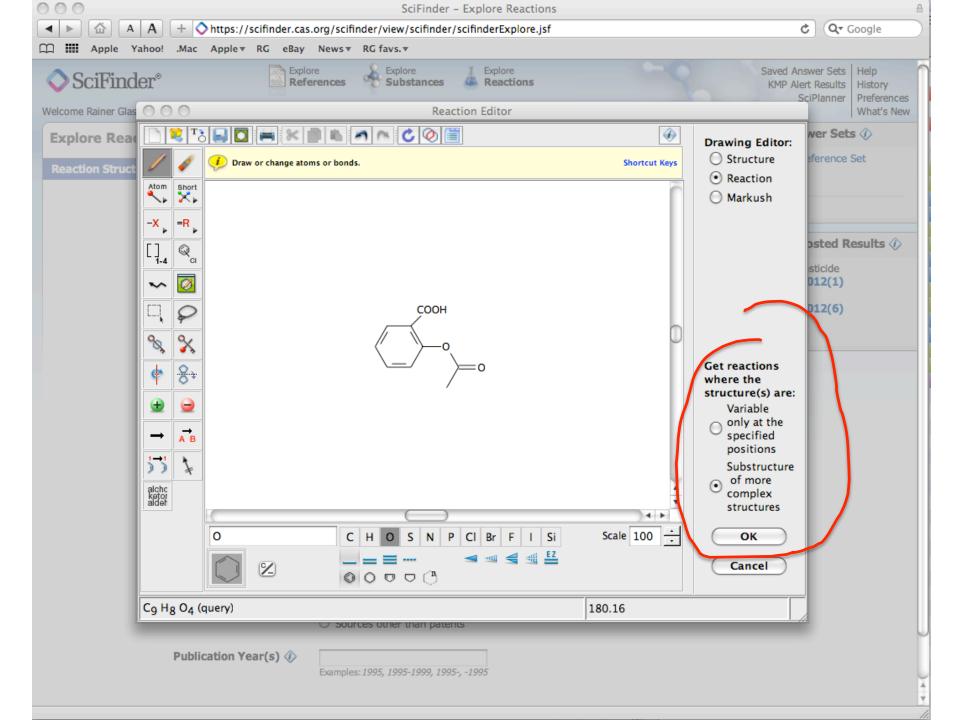
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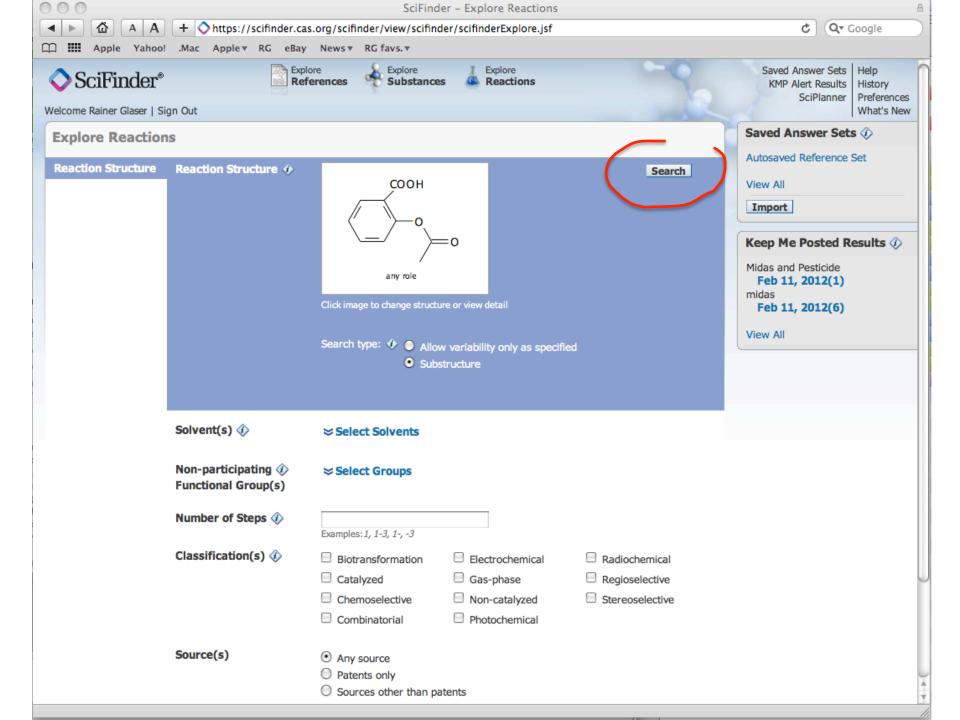
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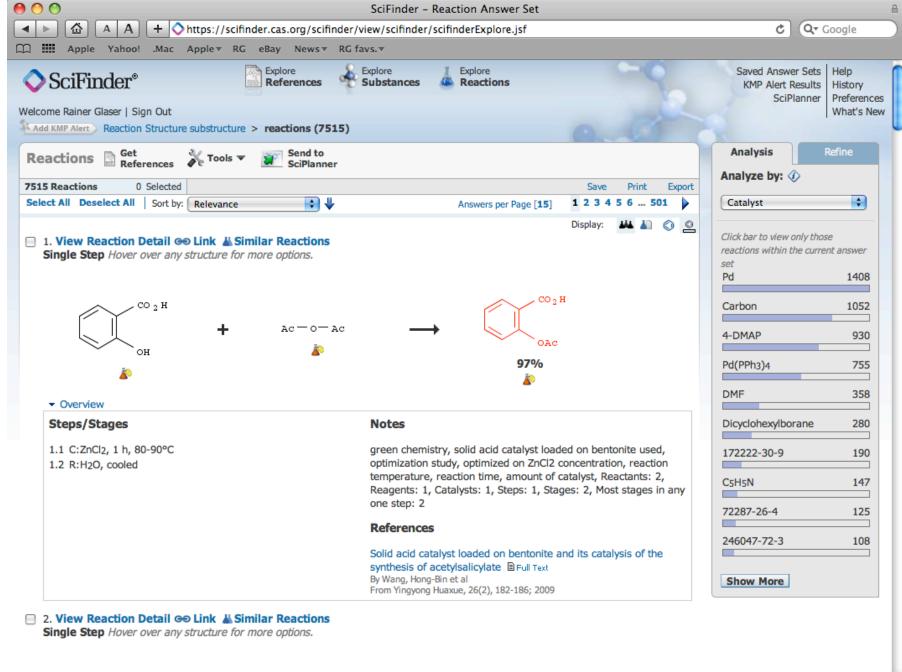












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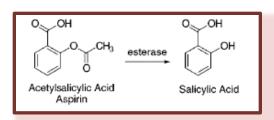
CO₂H

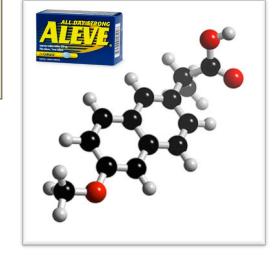
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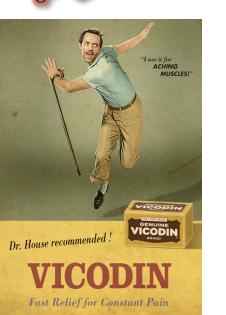
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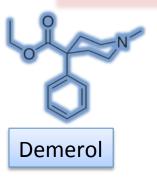
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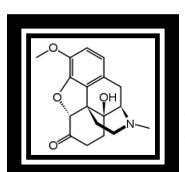
Project #1: Oral Presentation of A#5.











Oxycodone

(5R,9R,13S,14S)-4,5 α -epoxy-14-hydroxy-3-methoxy-17-methyl-morphinan-6-one

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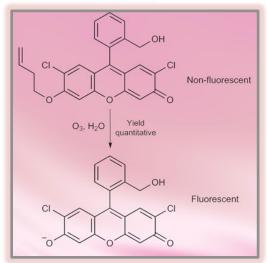


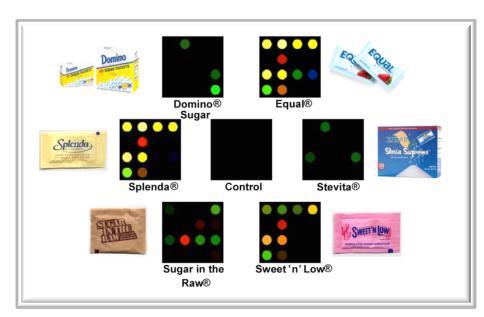
Colorimetric Indicator Dyes: Nomenclature, Synthesis and Spectroscopic Analysis.

Assign. #5: Handout & online.

Assign. #6: Oral Presentation of A#5.







Leading Reference

Iron-Catalyzed Direct Arylation through an Aryl Radical Transfer Pathway

Frédéric Vallée, James J. Mousseau, and André B. Charette*

Department of Chemistry, Université de Montréal, P.O. Box 6128, Station Downtown, Montréal, Québec, Canada, H3C 3J7

Received December 18, 2009; E-mail: andre.charette@umontreal.ca

Biaryl compounds are omnipresent in Nature as well as in numerous biologically active compounds, including antibiotics¹ and various receptor inhibitors, and have been used to treat hypertension as well as bipolar disorders. Consequently, they have attracted much pharmaceutical interest,² as well as in other areas including material and supramolecular sciences.^{3,4}

Figure 1. Various ways to prepare biaryl compounds.

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