

WHAT'S IN A TYPICAL CHEMISTRY DOCUMENT (PUBLICATION OR PATENT)?



the meso-fluoroarylporphyrin and meso-tetraphenyl
**Corresponding author: Department of Inorganic and Physical Chemistry, Indian Institute of Science, Bangalore 560012, India.

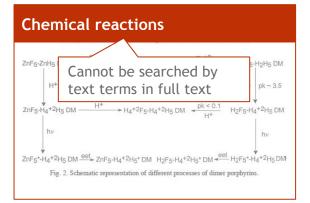
toinduced electron transfer. We made use of the

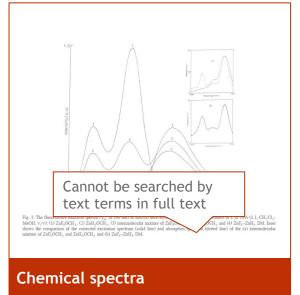
differential basicity of the inner imino nitrogens of

uon of amincal pioconic oevices.

The substitution of pentafluorously groups in the meso positions of the porphyrin confers unique inertness of the inner immo nitrogens towards protonation and metallation reactions. The fluoronaylor-phyrins exhibit interesting optical and electrochemical properties [13]. We synthesised porphyrin dimers (Fig. 1) comprising of miso-fluoronaylopothyrian dimers (Fig. 1) comprising of miso-fluoronaylopothyrian dimers (exclude third per occupient bidge to accomplish selective protonation and demetallation of the meso-tetraphenylopothyrin moiety in the dimer. We demonstrate here that the dicationic porphyrin dimer exhibits efficient intra-molecular singlet excitation energy transfer (ee) from colocular singlet excitation energy transfer (ee) from colocular singlet excitation energy transfer (ee) from



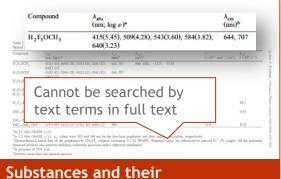




2. Experimental

Covalently linked porphyrin dimer was synthesised by the method of Little [14]. We have used 5-(4-methoxyphenyl)-10,15,20-triphenylporphyrin (H2H2OCH3) and 5-(4-methoxyphenyl)-10,15,20tri(pentafluoro)phenylporphyrin (H, F, OCH,) as reference compounds for comparison studies. Hereafter these tv Can be searched in full trapheny spectext, but you don't want tively. afluto read the whole paper oro)phen by in you are interested only demethy porphyrin o f reby this section! phyrins were characterised by

Experimental procedures



physicochemical properties



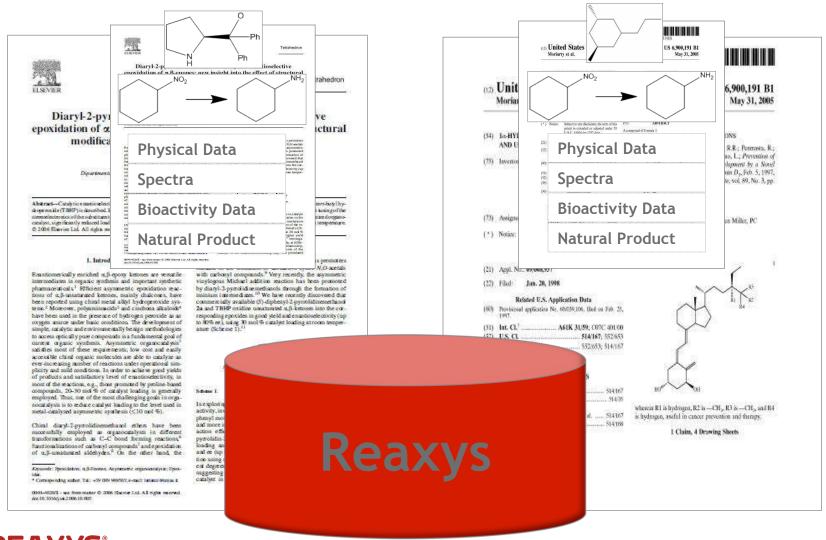
REAXYS DESIGN

Chemistry as the organizing principle



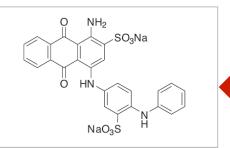
REAXYS IS BUILT

With experimental data from journal articles and patents





CHEMISTRY AS THE ORGANIZING PRINCIPLE



Chemical Structures

Chemical Syntheses

3784 J. Med. Chem. 2009, 52: 3784-3793

High-Affinity, Non-Nucleotide-Derived Competitive Antagonists of Platelet P2Y12 Receptors

Younis Baqi, Kerstin Atzler, Meryem Köse, Markus Glänzel, 44 and Christa E. Müller

PharmaCenter Bonn, Pharmaceutical Institute, Pharmaceutical Chemistry I, Pharmaceutical Sciences Bonn (PSB), University of Bonn, An der Immenburg 4, D-53121 Bonn, Germany, Department of Experimental and Clinical Pharmacology and Toxicology, University of Freiburg, Albertstraße 25, D-79104 Freiburg, Germany

Received March 16, 2009

Anthraquinone derivatives related to the moderately potent, nonselective P2Y12 receptor antagonist reactive Animalantone derivatives retained on motivative point, indistretives $T_{\rm in}$ present to P2Y₁ receptor affinity. A radioligand binding assay utilizing human blood platelet membranes and the P2Y₁ receptor-elective antagonist radioligand PH2-propythioadenosiae-5'-adenylic acid (1,1-dichlors-1-phosphonomethyl-1-phosphonyl) unhydride (PHJPSB-0413) was applied for compound testing. 1-Amino-2-sulfoanthraquinone derivatives bearing a (p-1)-(p-1)phenylamino)anilino substitution in the 4-position and an additional acidic function in the meta-position of the aniline ring showed high P2Y₁₂ receptor affinity. These new anthraquinone derivatives became accessible by a recently developed copper(0)-catalyzed Ullmann coupling reaction of 1-amino-4-bromoanthraquinone

Reaxys excerpts all relevant data even from footnotes and text

and sustained aggregation not preceded by shape change. The latter receptor also plays an important role in the potentiation of platelet secretion induced by several agonists, and its congenital deficiency has been shown to result in a lifelong bleeding disorder.4 Modulation of P2 receptors in platelets appears to be of paramount importance in regulating platelet function and, as a consequence, in controlling thrombotic diseases, which are the most common cause of morbidity and

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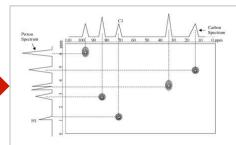
"Pharma Centre Bonn, Pharma Centrol Institute, Pharmacocitical Chemistry I. Pharmacocutical Chemistry I. Pharmacocutical Sciences Bonn (PSB). University of Bonn.

"Department of Experimental and Clinical Pharmacology and Toxicology, University of Feebrug.

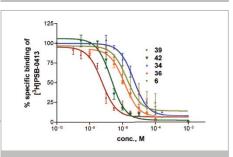
"Process address: Eleceive Pharma Bickech Group, Eleceire Información Systems GmbH, Theodor-Heuns-Allee 108, D-60486 Frankfust (Main),

presumably act as covalent, possibly allosteric antagonists at P2Y₁₂ receptors⁹ (see Supporting Information, Scheme 1). Major drawbacks of clopidogrel and related thienotetrahydropyridine derivatives are: (i) slow onset of action (up to several days) due to the required metabolism, (ii) long duration of action due to irreversible inhibition, (iii) "drug resistance" in a high percentage of patients (up to 30%), (iv) moderate potency (therefore high doses are required), and (v) difficulties in steering and controlling the effects.

Therefore, it is highly desirable to develop P2Y₁₂ antagonists that are lacking the drawbacks associated with the standard P2Y₁₂ antagonists such as clopidogrel and other thienotetrahydropyridine derivatives. Several groups have recently been developing competitive, reversible P2Y₁₂ antagonists that may be superior to clopidogrel and related drugs. Most approaches started from the adenine nucleotides as lead structures, ADP,



Physicochemical **Properties**



Pharmacology



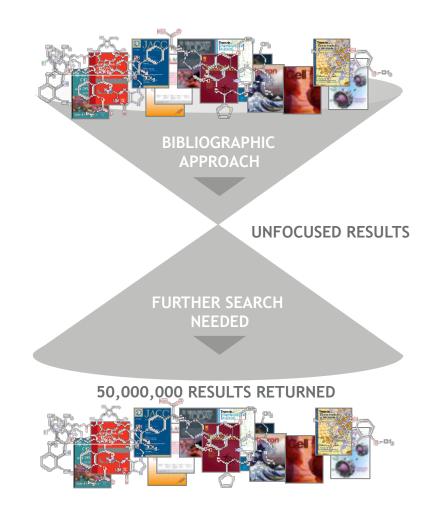
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OTHER DATABASES

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Patent Content: English language only patents from the major chemistry patent classes of the US, European, and World Patent Offices



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KEYWORDS

A single bibliographic record in Reaxys contains index keywords from:

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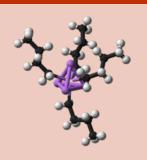
Searching for classes of substances in Reaxys

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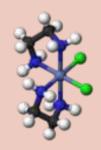
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CLASSIC ORGANICS



ORGANOMETALLICS
COORDINATION
COMPOUNDS



CLASSIC INORGANICS

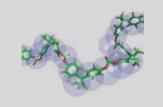


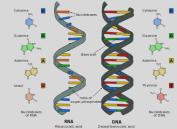
ALLOYS & METALS

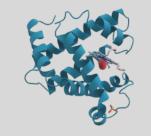
CERAMICS



POLYMERS







NUCLEIC ACIDS & PROTEINS

WHAT IS REAXYS 2015?

CONTENT: MANY DATABASES ALL IN ONE

A Bibliographic Database

>48 million records (from ~16,000 journal titles plus records from key patent organisations)

A Substance Database

- > 78 million substances (total)
- ~ 57 million substances (unique)

Reaxys 2015

A Chemical Reaction Database

> 38 million single- and multi-step reactions

A Property Database

> 500 million experimental properties in > 400 fields in > 130 subject areas

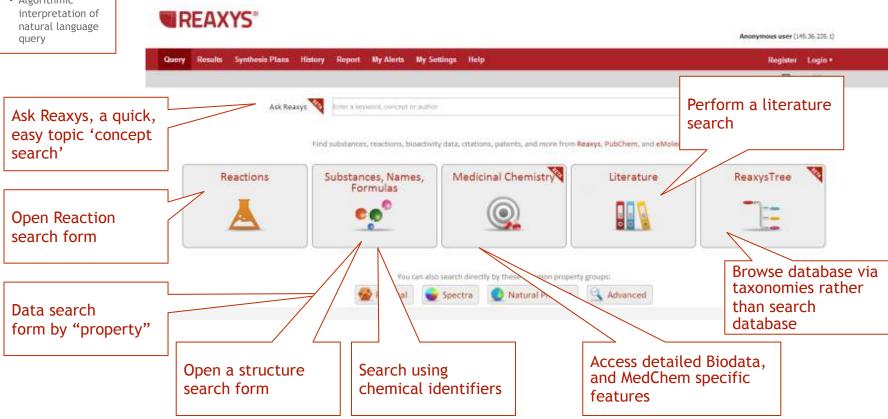


SFARCH

- What are the search options?
 - Substances
 - Reactions
- Literature
- Properties
- Is there "search intelligence"?
- Truncation
- Proximity
- Algorithmic

SEARCH

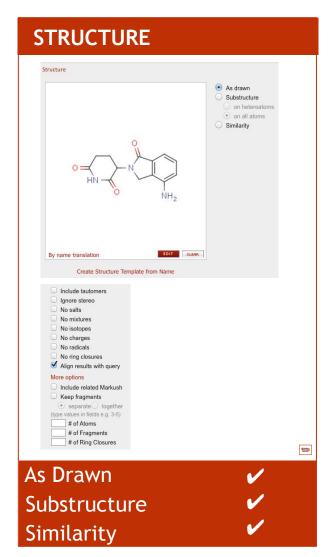
REAXYS: SIMPLER TO SEARCH, MORE DISCOVERABLE INFORMATION



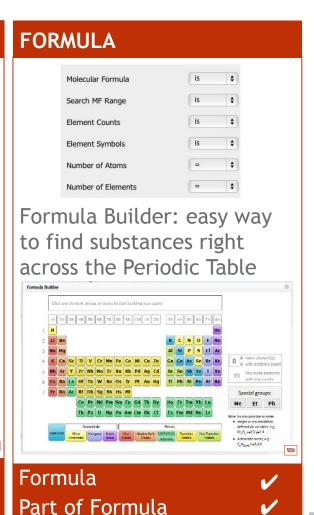


SEARCH SUBSTANCES

SEARCH STRUCTURE, NAME, OR FORMULA - IN FULL, OR IN PART



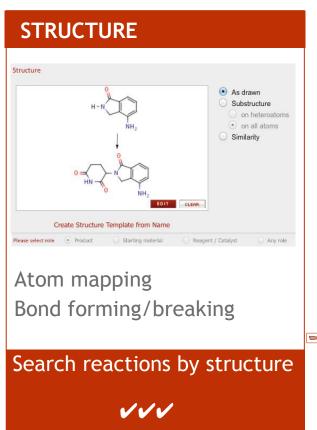


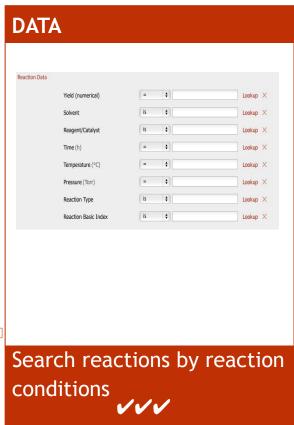


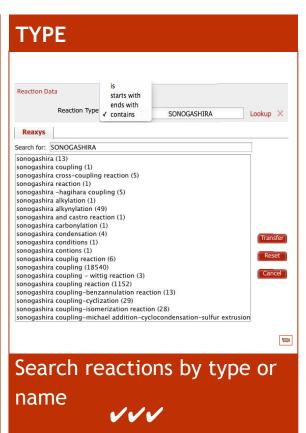
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SEARCH REACTIONS

SEARCH BY STRUCTURE, DATA, OR TYPE



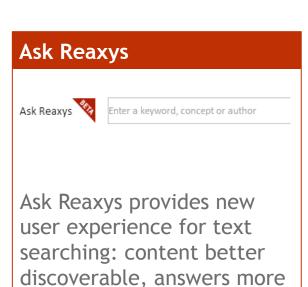






SEARCH LITERATURE

OUR GOAL: MAKE CONTENT MORE DISCOVERABLE, MORE EASILY!



Intelligent interpretation of topic query

immediately available

VVV





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Browse through taxonomies



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Citation Basic Index	is	•	Lookup X

You can also search with truncation/proximity - like you do through other interfaces

Use truncation/proximity if you like





SEARCH PROPERTIES

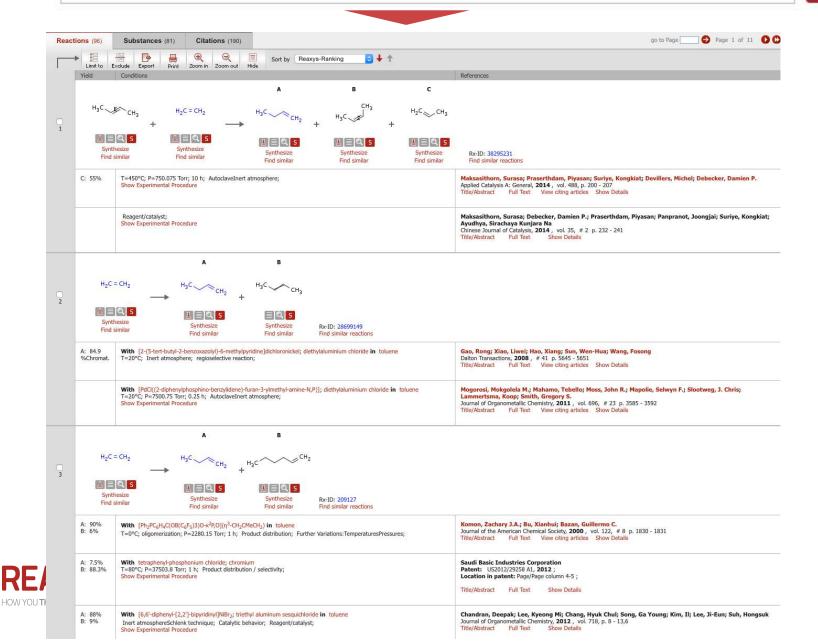
>500 MILLION EXPERIMENTAL PROPERTIES, >400 FIELDS, >130 SUBJECT AREAS

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Physical Spectra Natural Product Spectra Natural Product NNAS Spectroscopy Nucleus IR Spectroscopy ReacysTree Physical Spectra Natural Product Natural Product Nounce Find any property Description of the Concentration of the Environment exists Ecological Data Ec	Bioactivities Substance Route Bioassay Category Receive action on target Effect Cellu Cell lines Cellu Cell lines Cellu Cell lines Bioassay Category Receive Cellu Cell lines Cellu Cell lines Receive Target Nature Receive Target Nature Receive Target Nature Receive Add to Query: Structure Molecular Formula Select index items and click Transfer' Receive Receive Receive Select index items and click Transfer' Receive Select index items and click Tran	
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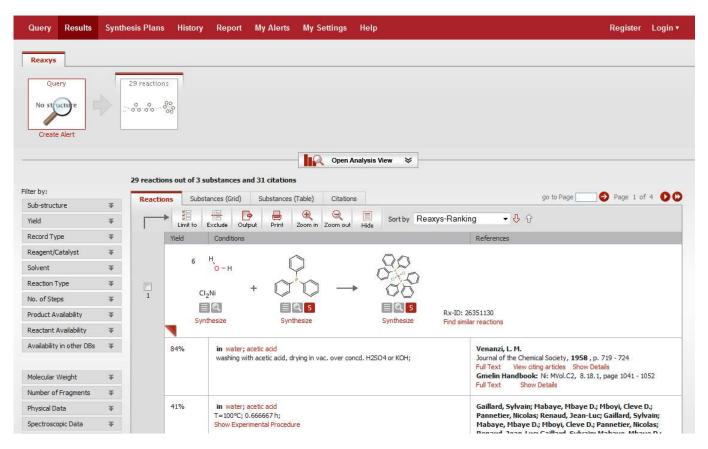
Ask Reaxys

preparation of 1-butene from ethylene



MAKE A COMPOUND

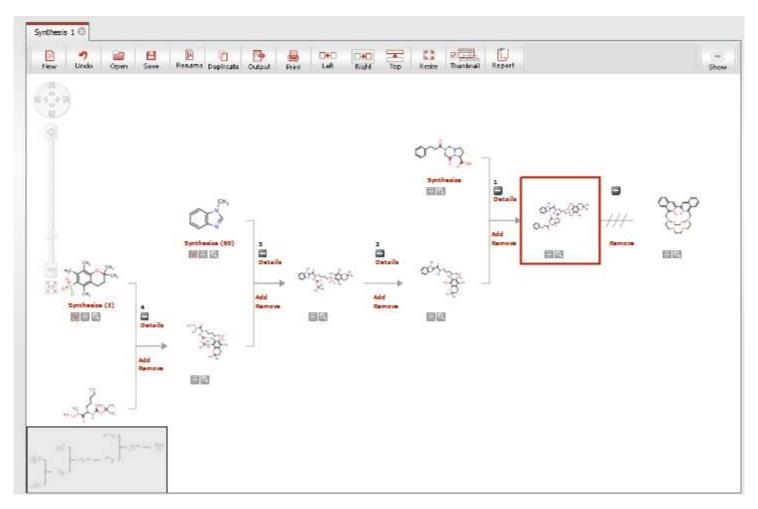






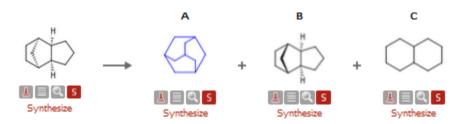
SYNTHESIS PLAN:

AUTOMATES THE UNDERLYING PROCESSES IN CREATING SYNTHESIS ROUTES





SHOW EXPERIMENTAL PROCEDURE



Rx-ID: 27727760 Find similar reactions

With AICl₁, aluminium chloride in dichloromethane T=0 - 20°C: 18 h: Hide Experimental Procedure

Tsao, Ying-Yen; Liao, Chyuan-Neng; Chen, Chi-Yu; Lin, Chin-Ming; Wei, Kuo-M Patent: U52008/249341 A1, 2008; Location in patent: Page/Page column 8;

Title/Abstract Full Text

Show Details

EXAMPLE 5 is the comparative example of EXAMPLE 4.65 g of endo-THDCPD crystals from the same source of EXAMPLE 4 are placed in a 250 ml of glass bottle, followed by adding 40 g of dichloromethane thereto to dissolve the nitrogen and stirring in the ice bath. Subsequently, 10 g of AICl3 is added to the dichloromethane solution of endo-THDCPD, followed by stirring for 2 hours in the ice bath, and continuously stirring for 16 hours at room temperature. with 100 ml of saturated KCl solution, followed by adding it to a separatory funnel, shaking to allow to separate into two layers and leaving the upper layer in the separatory funnel. The above saturated KCl solution washing process. Subsequently, the mixture washed with the saturated KCl solution is washed with 100 ml of deionized water, followed by adding it to a separatory funnel, shaking to allow to separate into two layers and leaving the lower layer in deionized water washing procedure is repeated for three times. Subsequently, the lower layer is distilled to remove dichloromethane and water. The bottoms is collected, and determined by chemical analysis. The chemical analysis composed of 85.7 wt percent of exo-THDCPD, 0.5 wt percent of endo-THDCPD, 1.2 wt percent of Decalin, 5.8 wt percent of adamantane, 1.3 wt percent of exo-THMDCPD, and the other two-stage hydrotreated and saturated C₁ and/or MCPD diners. The bottoms has a volumetric heating value of 39.17 MJ/L, a density of 0.9339 at 15° C., and a viscosity of 3.52 cSt at 20° C. and more than 26.7 cSt at -20° C. In this example, the isomerization reaction is v reaction time is too long so that portions of exo-THDCPD is further isomerized to adamantane which will increase the viscosity of the high energy fuel. Under such a violent reaction conditions, a small amount of THDCPD will be rin decalin (the side product) with relatively less volumetric heating value as well as density. Therefore, the isomerization reaction of this example is not suitable for preparing the high energy fuels because the freezing point of the isomerization.



♠ Physical Data

- ¥ Melting Point (8)
- FRefractive Index (48)
- ¥ Density (33)
- * Adsorption (MCS) (994)
- F Conformation (1)
- F Crystal Phase (24)
- ¥ Crystal Property Description (30)
- ¥ Crystal System (5)
- ¥ Decomposition (1)
- **∓** Dielectric Constant (20)
- **F** Dissociation Energy (1)
- F Dynamic Viscosity (3)
- F Electrical Data (56)
- ¥ Electrical Moment (1)
- F Electrochemical Behaviour (1)
- ¥ Electrochemical Characteristics (17)

¥ NMR Spectroscopy (2)

¥ IR Spectroscopy (259)

Mass Spectrometry (1)

FESR Spectroscopy (30)

∓ Raman Spectroscopy (6)

¥ Luminescence Spectroscopy (8)

Fluorescence Spectroscopy (6)

Other Spectroscopic Methods (5)

¥ UV/VIS Spectroscopy (304)

- ¥ Electrochemistry Data (54)
- F Electron Binding (2)
- Fenthalpy of Formation (3)
- F Enthalpy of Vaporization (1)
- Further Information (1742)
- ¥ Heat Capacity Cp (90)
- ▼ Interatomic Distances and Angles (3)
- ¥ Ionization Potential (2)
- ¥ Liquid/Liquid Systems (MCS) (5)
- ¥ Magnetic Data (7)
- ▼ Magnetic Susceptibility (9)
- ¥ Mechanical Properties (15)
- ***** Molecular Deformation (1)
- F Optics (3)
- Thermochemical Data (10)
- F Solubility (MCS) (12)
- F Space Group (78)
- Thermal Expansion (3)
- ₹ Transition Point(s) of Crystalline Modification(s) (129)
- **F** Transport Data (9)
- Transport Phenomena (MCS) (15)

TIO2 - PROPERTIES

Structure	Structure/Compound Data	N° of preparations All Preps All Reactions	Available Data	Target	Nº of re
O ₂ Ti	Chemical Name: Titanium(IV) oxide Reaxys Registry Number: 4360545 Type of Substance: Glass or Ceramic materialCoordination compoundIsotope or isotope containing compoundSolid solution Molecular Formula: 0 ₂ Ti Linear Structure Formula: 0 ₂ Ti Molecular Weight: 79.8788 InChI Key: QWWIMOOFEDJKFN-UHFFFAOYSA-N	542 prep out of 14302 reactions.	Druglikeness Bioactivity Identification Physical Data (3437) Spectra (621) Use/Application (1555) Quantum Chemical Data (61)	Show Targets	11082

± Use (1555)		
use rattern	Location	Reference
Coating/paints/lacquers	Page/Page column 5	ROHM AND HA Raymond; Man Patent: US2014/ Title/Abstract
pigment in biocide coatings formulations contain hindered alkylamine polymers	ing Page/Page column 5	ROHM AND HA Raymond; Man Patent: U52014/
		Title/Abstract
Cosmetics/dental/toilet	Page/Page column 33	UNIVERSITY O Patent: WO2014
		Title/Abstract
Polymers/polymer applications	Page/Page column 33	UNIVERSITY O Patent: WO2014 Title/Abstract
al and the first of	D (D 1 22	
antibacterial component of resins useful in denta composites	al Page/Page column 33	UNIVERSITY O Patent: WO2014 Title/Abstract
Pharmaceuticals	Paragraph 34	SHOWA DENKO
Pharmaceuticals	Paragraph 34	Masahiro; LI D Patent: WO2013
		Title/Abstract
photocatalytic material in antimicrobial composit	ion Paragraph 34	SHOWA DENKO Masahiro; LI Di Patent: WO2013
		Title/Abstract
photocatalytic material in antiviral composition	Paragraph 34	SHOWA DENKO Masahiro; LI D Patent: WO2013
		Title/Abstract
Pharmaceuticals	Page/Page column 5; 6	OLD DOMINIO Patent: US2013/ Title/Abstract
increasing absorbency of the first material in a v system upon exposure to light	wound care Page/Page column 5; 6	OLD DOMINIO Patent: US2013/
		Title/Abstract
inhibiting growth of bacteria in a wound care sy exposure to light	stem upon Page/Page column 5; 6	OLD DOMINIO Patent: US2013/
		Title/Abstract
second material in a wound care system	Page/Page column 5; 6	OLD DOMINIO Patent: US2013/ Title/Abstract
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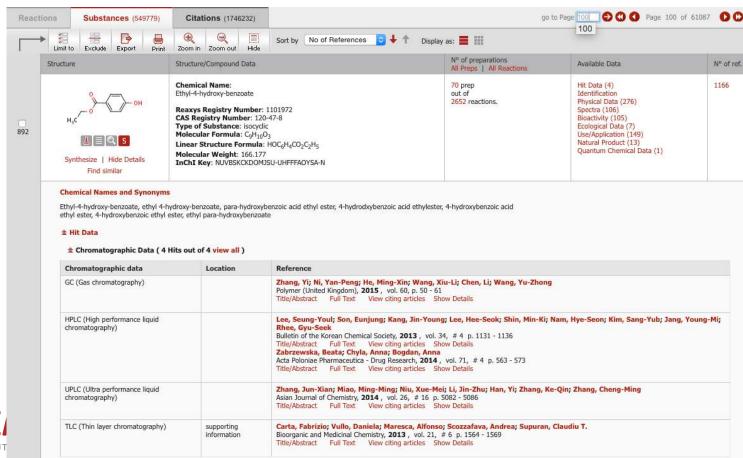
★ Quantum Chemical	Carcarations (GL)		
Calculated Properties	Method	Location	Reference
Atom distances, angles	DFT - density functional methods	supporting information	Andreev, Yuri G.; Panchmat Journal of the American Chemica Title/Abstract Full Text Vi
Density of states	Ab initio calcns. (LCAO, GO SCF, DIM, SAMO, X-à, Hartree-Fock)		Feng, Ningdong; Wang, Qian Feng Journal of the American Chemica Title/Abstract Full Text Vi
Atom distances, angles Potential energy function, potential curve Vibrational constants	Ab initio calcns. (LCAO, GO SCF, DIM, SAMO, X-alpha, Hartree-Fock)		Zhuang, Jia; Li, Zhen Hua; F Journal of Physical Chemistry A, Title/Abstract Full Text Vi
Molecular orbitals Electronic energy levels	Ab initio calcns. (LCAO, GO SCF, DIM, SAMO, X-à, Hartree-Fock)		El-Shafei, Ahmed; Hussain, Journal of Materials Chemistry, 2 Title/Abstract Full Text Vi
Electronic energy levels	Ab initio calcns. (LCAO, GO SCF, DIM, SAMO, X-alpha, Hartree-Fock)		Lu, Xiaoqing; Wei, Shuxian; Journal of Organometallic Chemis Title/Abstract Full Text Vi
Density of states Band structure	Ab initio calcns. (LCAO, GO SCF, DIM, SAMO, X-alpha, Hartree-Fock)		Munnix, S.; Schmeits, M. Physical Review B: Condensed N Full Text View citing articles Sarkar; Ghosh; Maiti; Chatt Physica B: Condensed Matter, 2 Title/Abstract Full Text Vi
Band structure Density of states UV/VIS wave lengths	Ab initio calcns. (LCAO, GO SCF, DIM, SAMO, X-alpha, Hartree-Fock)		Guo; Zhang; Liang Physica B: Condensed Matter, 2 Title/Abstract Full Text Vi
Density of states Molecular orbitals Electronic energy levels Band structure	Ab initio calcns. (LCAO, GO SCF, DIM, SAMO, X-alpha, Hartree-Fock)		Zhao, Dongqiu; Huang, Xiao Applied Physics Letters, 2011, Title/Abstract Full Text Vi
Population analysis, charge distribution Density of states Band structure	Ab initio calcns. (LCAO, GO SCF, DIM, SAMO, X-alpha, Hartree-Fock)		Shi, Weimei; Chen, Qifeng;) Journal of Solid State Chemistry, Title/Abstract Full Text Vi
Band structure Effective masses Population analysis, charge distribution UV/VIS wave lengths	Ab initio calcns. (LCAO, GO SCF, DIM, SAMO, X-alpha, Hartree-Fock)		Zhang, Rui-Shuo; Liu, Yong; Journal of Alloys and Compounds Title/Abstract Full Text Vi
Density of states UV/VIS wave lengths	Ab initio calcns. (LCAO, GO SCF, DIM, SAMO, X-alpha, Hartree-Fock)		Zhang, Zhi-Kun; Bai, Mei-Lir Chemical Communications, 201 Title/Abstract Full Text Vi
Atomization energy	Ab initio calcns. (LCAO, GO SCF, DIM, SAMO, X-alpha, Hartree-Fock)		Shinzato, Yoshifumi; Yukaw Journal of Alloys and Compound Tide/Abstract Full Text Vi West, Richard H.; Beran, Gr Journal of Physical Chemistry A.

Title/Abstract Full Text Vi Hirate; Morinaga; Yukawa;

Physical Data			
	Chromatographic Data	vists	×
	Solvent (Solubility (MCS))	is 🗦	Lookup X
Show AND Buttons			

Add to Query: Structure Molecular Formula Alloy Add/Remove Fields... Search Substances







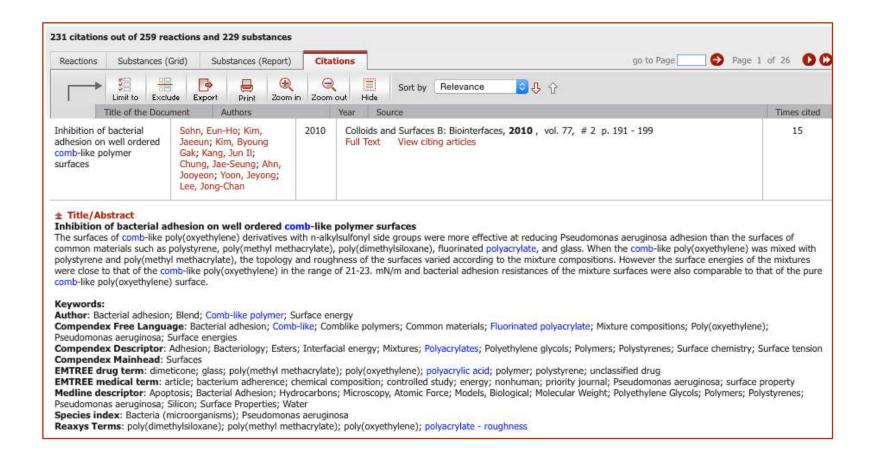
Citation Basic Index





Comb polymer

The various shapes of polymer backbones may easily be searched by words: Search Literature comb polyacryl* Lookup X





FIND: Polymer Blends

For simple text searches, try Ask Reaxys

Ask Reaxys performs a text search, and usually gives satisfactory initial answers

In order to discover ways to expand (or contract) the search, look carefully at a few of the answers and in particular look at the (more systematic) Keywords that have been added from several different sources

 We may wish to use some of them in revised searches

Note that for text searches, Ask Reaxys currently does not automatically add singulars/plurals

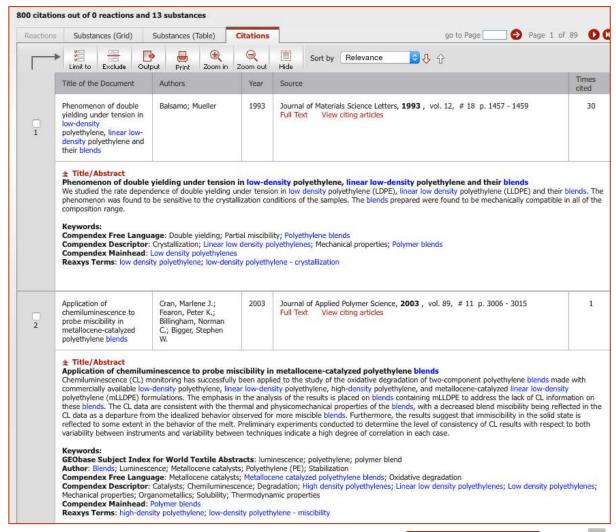
If needed, more precise or comprehensive searches may be done through the CITATION BASIC INDEX OF LERYLET.

EXAMPLE: Blends using linear low density polyethylenes



blends with linear low density polyethylenes



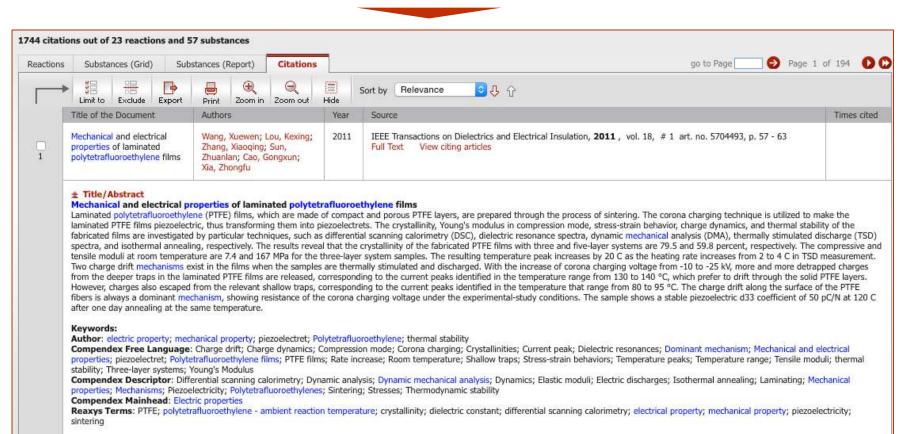


FIND: Property of a Polymer

EXAMPLE: Mechanical Properties of Polytetrafluoroethylene

General Mechanical Properties, or specific Mechanical Properties (such as Young's modulus) may easily be found through searches in the CITATION BASIC INDEX QUERYLET. Simply type in the entry field, take note of the auto-suggest terms (and perhaps use them as a guide to application of truncation)







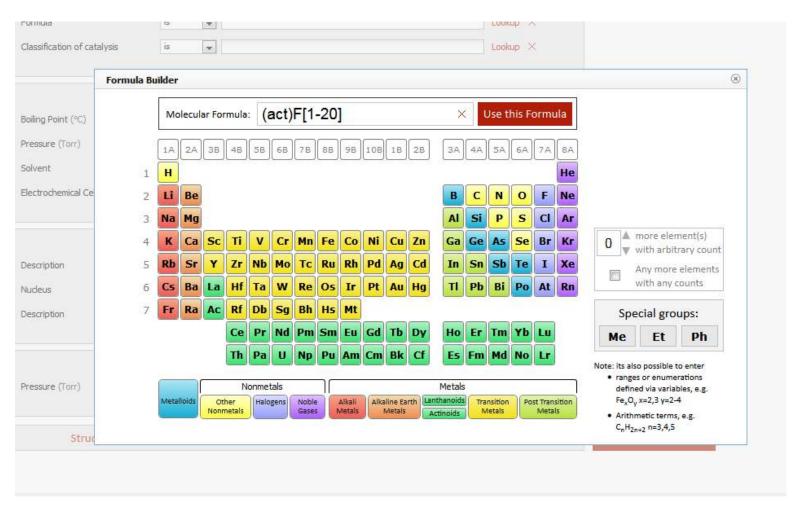
HOW YOU THINK HOW YOU WORK





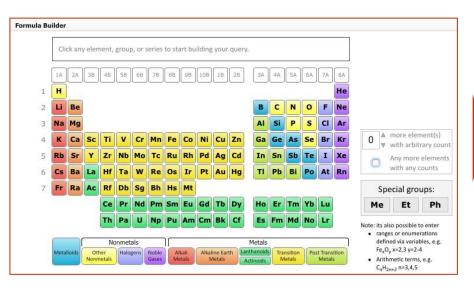
MOLECULAR FORMULA

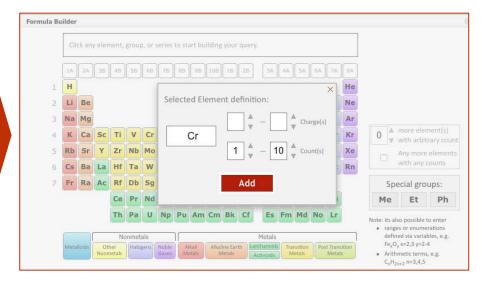
MOLECULAR FORMULA BUILDER

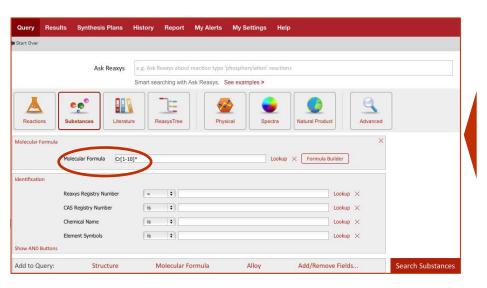


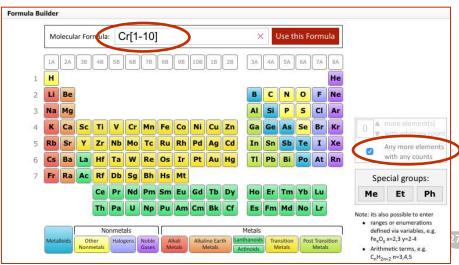


Chrome compounds

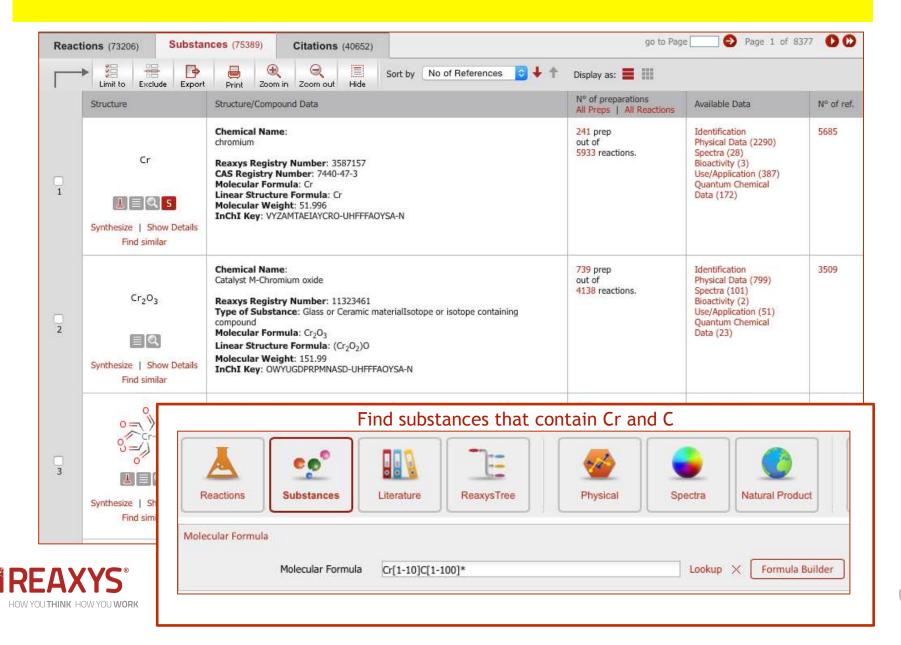




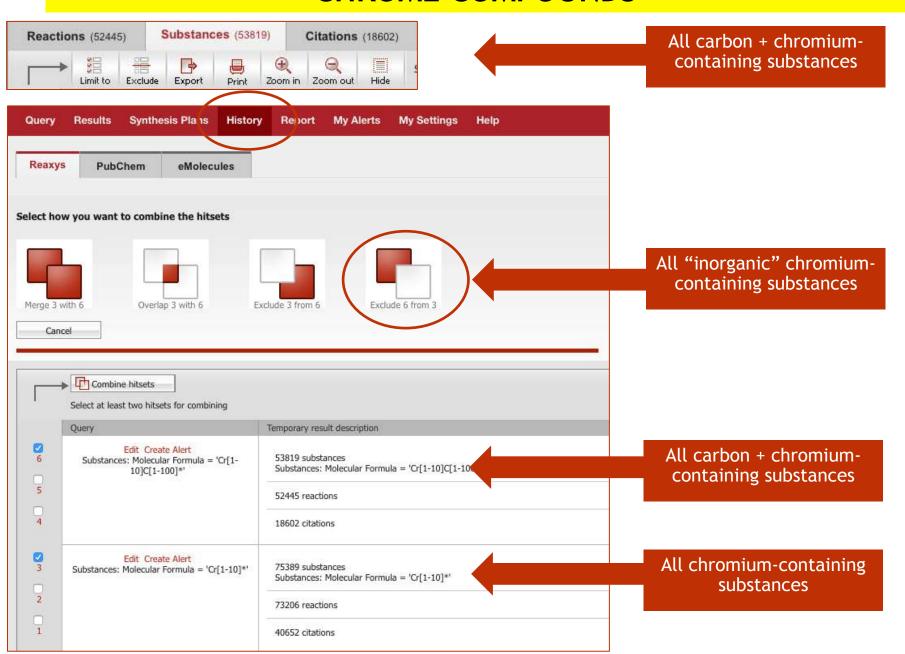




CHROME COMPOUNDS



CHROME COMPOUNDS



CHROME COMPOUNDS (Yellow Inorganics)

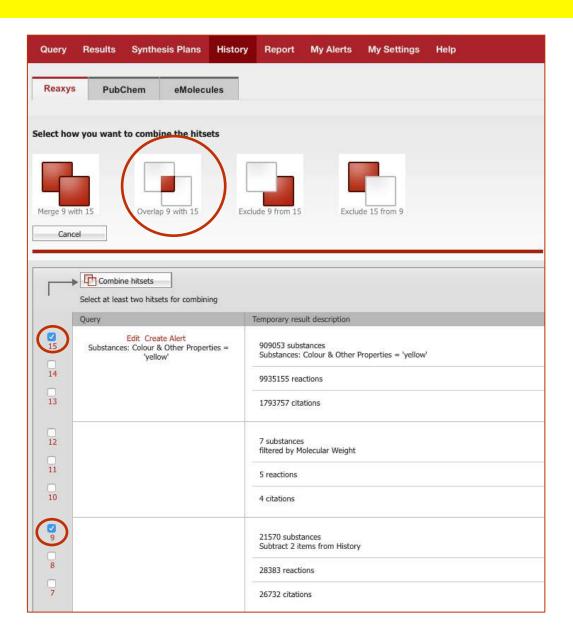




> 900,000
YELLOW SUBSTANCES

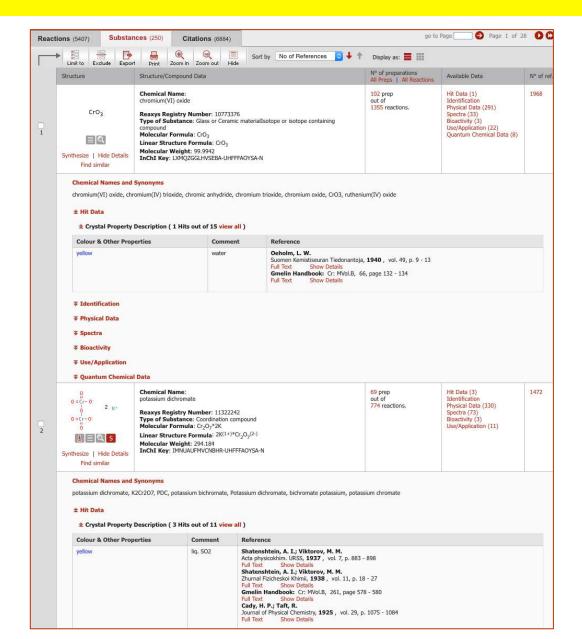


CHROME COMPOUNDS (Yellow Inorganics)



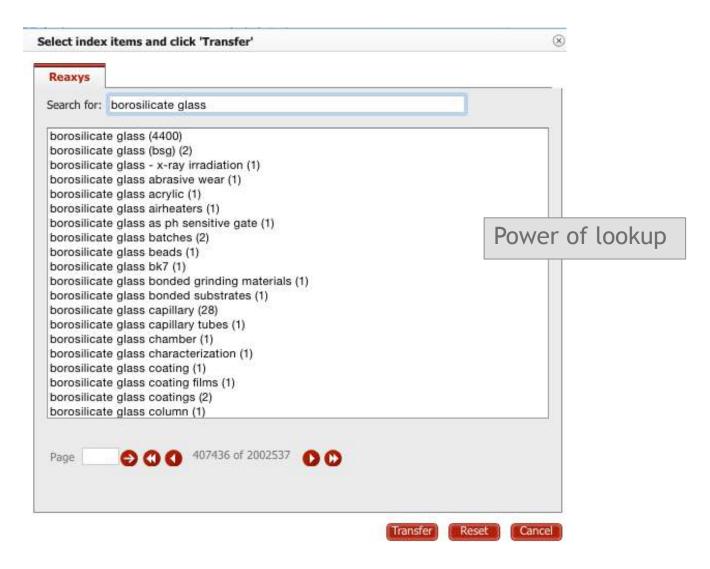


CHROME COMPOUNDS (Yellow Inorganics)





borosilicate glass

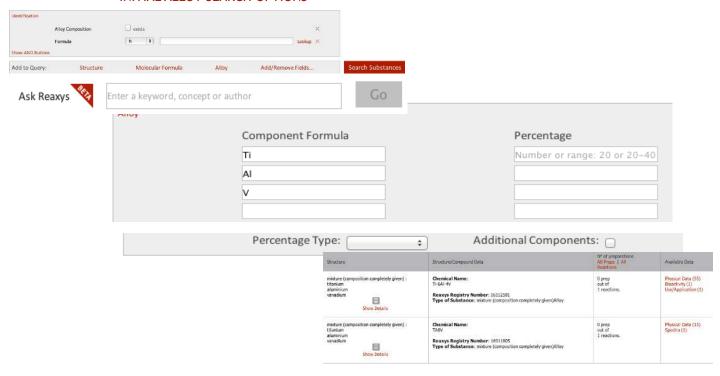






USING THE ALLOY QUERY FORM

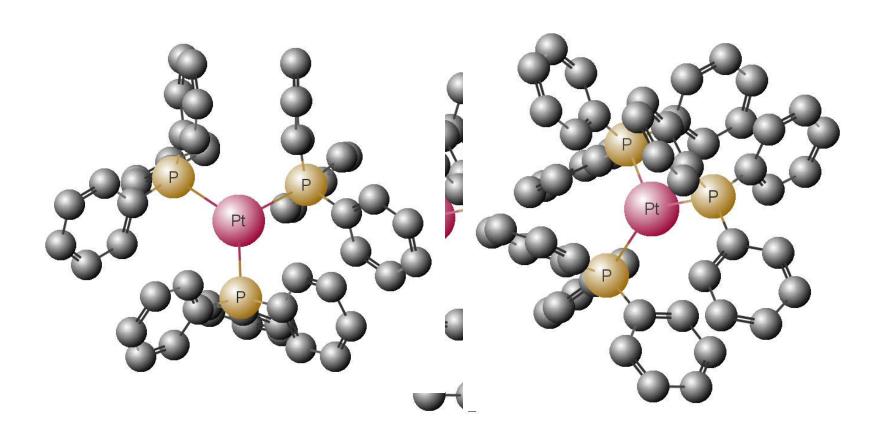
INITIAL ALLOY SEARCH OPTIONS





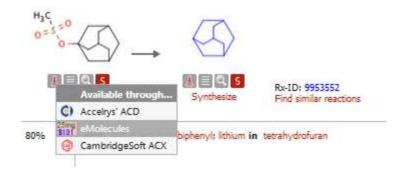


ROTATE 3D VIEW





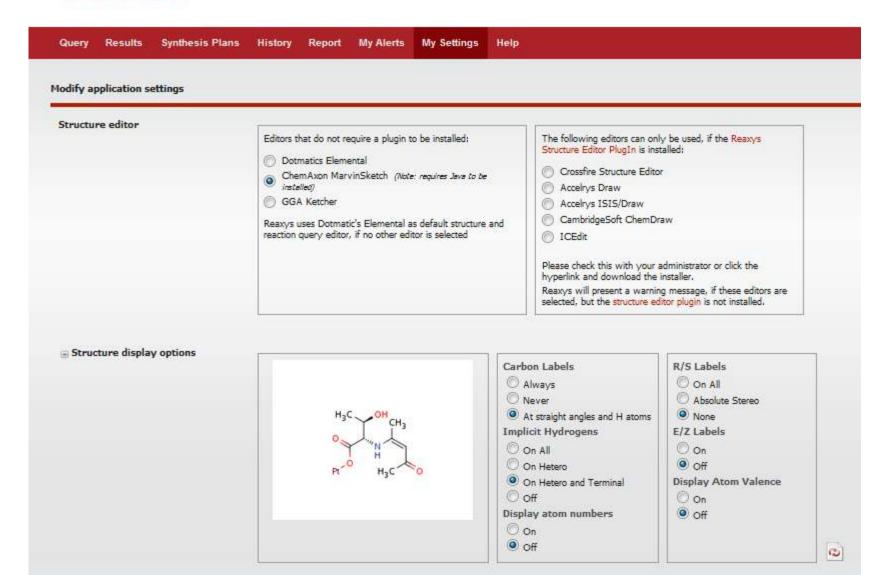
CHECK COMMERCIAL AVAILABILITY





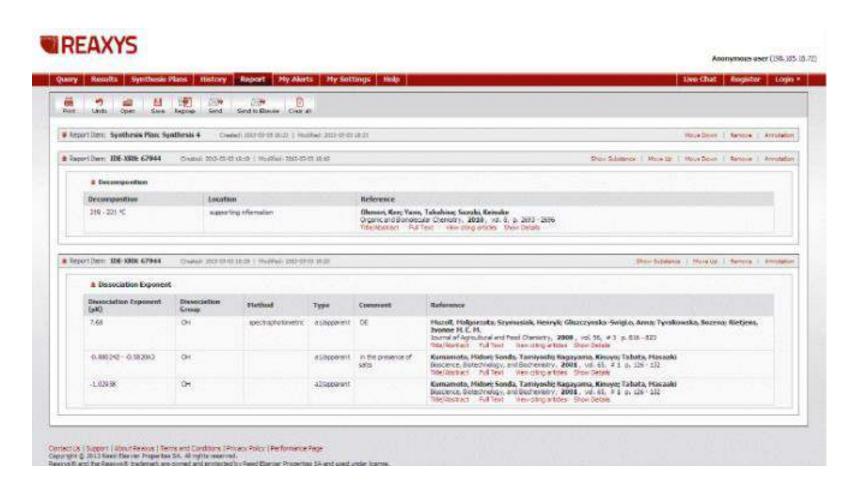
SUPPORTS DIFFERENT STRUCTURE EDITORS





REPORTING:

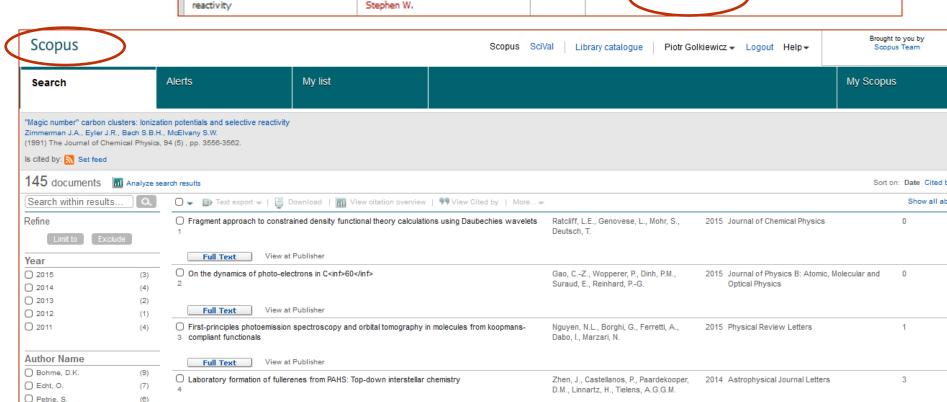
GATHER AND PREPARE THE INFORMATION





INTEROPERABILITY

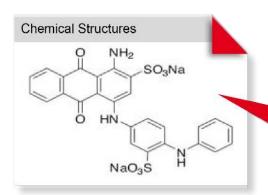


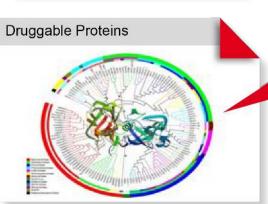






ESSENTIAL INFORMATION: 100+ EXPERIMENTAL FIELDS





Phil J. State Chee. 2009, 52, 7584-7513

High-Affinity, Non-Nucleotide-Derived Competitive Antagonists of Platelet P2Y₄₂ Receptors

Youts Bug.¹ Ecroin Artist.¹ Mayon Kim. Markov Glinch.¹⁵ and Oriens E. Millier.²

Farmations from Photocontrol Initian, Photocontrol Chemistry, I. Photocortes of Stowns Intel (FIS), University of Boss, As deformating a, B-0212 Stow, Geometry, Supermort of Experiment and Clinical Photocology and Emissings, University of Probug Adversarials 25, 0-2004 Freiburg, Geometry

Authoragianose derivatives related to the moderantly power, necedent to PTV e receiptor antagenist reactive blost. 246 have been epitherical and optimized with request to PTV e receiptor affinity. A radiological binding any utilizing basens helded plated resembles and the PTV encaptor destingly. A radiological binding any utilizing basens helded plated resembles are related to PTV encaptor destingly or antiquity of PTV encaptor destingly or antiquity of PTV encaptor destingly or antiquity of PTV encaptor destingly or antiquity of PTV encaptor destingly or antiquity or an

Reaxys Medical Chemistry Excerption

skreifel. Blood plentes squres one F2X straper subsyst. F2X, antisend by ATF, and no F2Y suspice subsyst. F2X, antisend by ATF, and no F2Y suspice subsyst. F2X, antisend by ATF, and no F2Y suspice subsyst. F2X, and F2Y sq. both substantial of the substantial by ATF, and F2Y suspice subsystem of the substantial by ATF, and the benevitres of the substantial by ATF, and a substantial by ATF, and a substantial by ATF, and a substantial by ATF, and a substantial by ATF, and assume that the substantial by ATF.

*To whose correspondence cleaded to addressed. Please. 4.45-225-75 2001. Pag. 4.45-226-75-200. E-mod. classes medicational-base de-Photosolvater From Photosocetical Institute, Photosocetical Clean step L. Photosocetical Sciences Bose. (PDS). University of Brisis.

ogs, University of Fredway.

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on a committing the serious means cause of exactly and means cause of exactly and means cause of exactly and means cause of exactly and means cause of exactly and cause of exact

clystidines elopidingral (L. Figure 1), and the newly developed assingue passagral (5/12-epitigrospi-1-c2-disorophers/s-2-enelopit-43.6) (weather) whitemed (3.0-epitigrospital) experience (* repterming plantin aggregation inhibitors that an effective in the

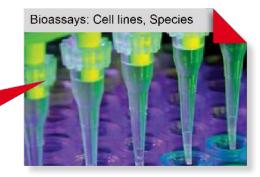
personsion and treatment of artestal thrombosis. These composeds are not direct $F2T_{ij}$ assignments. Clopslegerl, for example, has to be bioactivated by exclusion tile synchrone

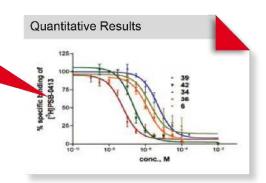
P450 cCVPSAA, CTPSAS, and CVP2CIVI naryuns followed by sing-opening to the corresponding highly annualise third or militaic acid-instructors, which are believed to cavalently bind

to the receptor protein ferming a disablele local and thus presumable as an occusion, possibly allowers; astagnosists at $P_{\rm SY_{\rm R}}$ complexe" one Supposing Solvenation, Solvene 1). Major discovers is of clopidaged and related discontrate/projections.

districtives are: (i) slow smart of action (up to several days) that to the required metabolism, (ii) long-distriction of action due to investable inhibition, (iii) "thrug environce" in a high

15 HUSSIGNOUS COC \$40.75 © 289 Assesses Chemical Society

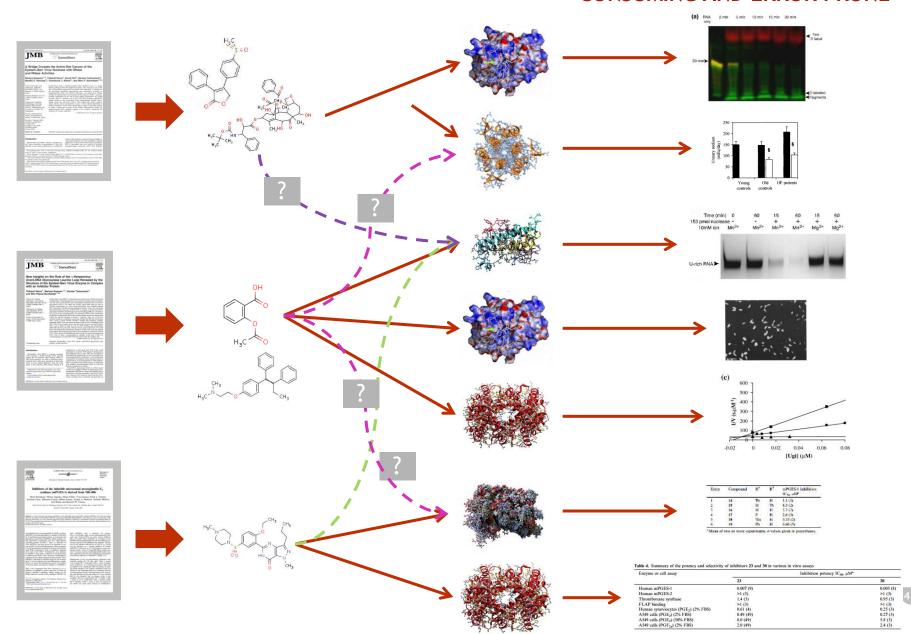




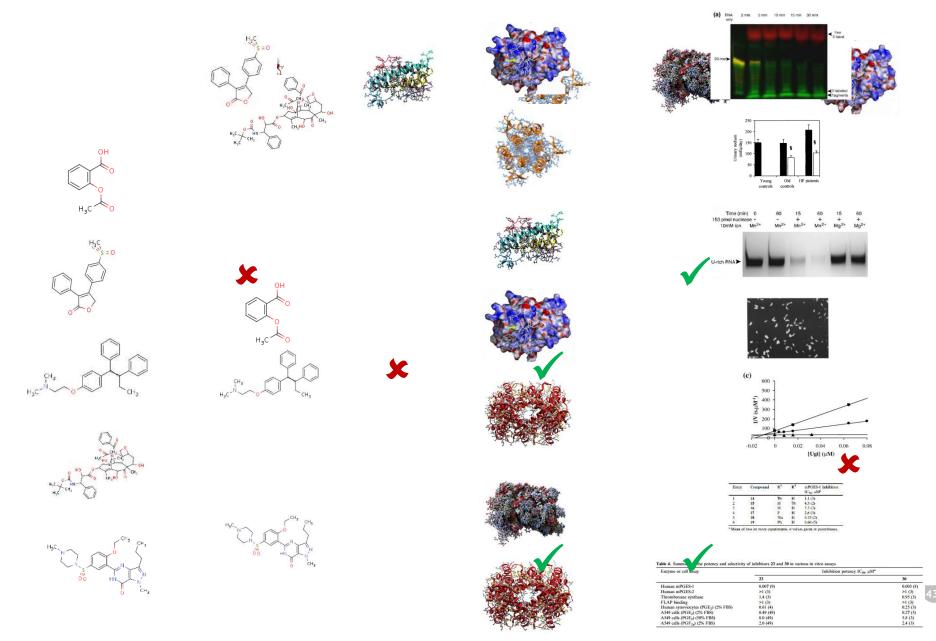
Reaxys Medicinal Chemistry excerpts all the relevant Quantitative data



... BUT IT'S NOT THAT SIMPLE, MEDICINAL CHEMISTS FOR INSTANCE NEED TO COLLECT, ORGANIZE AND COMPARE INFORMATION FROM DIFFERENT SOURCES... THIS IS TIME CONSUMING AND ERROR PRONE



... BUT IT'S NOT THAT SIMPLE, MEDICINAL CHEMISTS FOR INSTANCE NEED TO COLLECT, ORGANIZE AND COMPARE INFORMATION FROM DIFFERENT SOURCES... THIS IS TIME CONSUMING AND ERROR PRONE



AND TO MAKE A DECISION ON WHICH EXPERIMENT TO DO, YOU WANT TO ORGANIZE YOUR CONTENT, NORMALIZE AND COMPARE, TO UNDERSTAND WHICH COMPOUND INTERACTS WITH WHICH TARGET AND TRIGGER WHICH BIOLOGICAL EFFECT—THAT'S A LOT OF MANUAL WORK!

OH O H ₃ C	√	√	√	*	√
H ₃ C ₅ = 0	*	*	*	✓	*
CH ₃ CH ₃	√	*	√	*	✓
How the state of t	*	*	*	*	*
H ₂ C, N CH ₃	√	✓	√	✓	✓

RESULTS VIEW - HEATMAP

Manage X and Y axis

Filter by:	Bioactivities	(539)	1	ctions	(1010)	Subst	ances (39	92)	Targets (27)	Citations	(79)										
Substructure					-		1	0.000			101000000000000000000000000000000000000	10000	-									
Targets	DISPLAY: Str	ructure	Navigato	x AxisV	-	taDensity		CTED TA: L	imit to Ex	dude	FILTER:	7.7 min	(p)	Value:	15. ma	-		Exclude GC	STAR data			Legen
Target Species		Т																				111111111111111111111111111111111111111
Substance action on target	X-axis: Targets		į.				2010	xqda	1		8	8	2	100		_	1			>4	p.:	
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Effect	Y-axis: Substances		ath-blind	€ aprezza	gs.edb	kala	Dward I	nelaton	a projek	ngk receptor	hospho	shosphic	otassau	otassin	P _O	agma 2	somation	comatos	mem27	tpecsa	estoular	oltage
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Record Type	o o																					•
Reagent/Catalyst	or or															7.8			ш			
Solvent		-				1		1			-						-					
Reaction Type	gara	177.7																			-	
No. of Steps	Q,					8 1		1									-			_	-	-
Product Availability	. 0	-																		-		
Reactant Availability	0.30								7.9										_			
Availability in other DBs						1																
					10								1									
Molecular Weight	-	9	-			-					vity c					1						
Number of Fragments	1	had			10				bas	sed o	on pX											
Physical Data	- June				1900					ues	'			-								
Spectroscopic Data									Vai	ues												
Ecological Data	07:00						9.1							9.6								8.7
Natural Product								4				11.				1. 14	-					
Availability						7.9																
Availability in other DBs	275																			5 1		
LogP	204.0	32																				
H Bond Donor (HBD)	other													8.1								



X-axis: Targets Y-axis: Substances Select value type: MAX 1 substances and 1

X-axis: Targets

Y-axis: Substances

Select value type: MAX

I substances and I bioactivities

Structure

Chemical Name:
N-benzyl-4-azahexacyclo[5.4.1.02,6.0.05,9.08,11]dodecan-3-ol

Reaxys Registry Number: 1476838
CAS Registry Number: 33226-57-2
Type of Substance: heterocyclic
Molecular Formula: C₁₈H₁₉NO
Linear Structure Formula: C₁₈H₁₉NO
Molecular Weight: 265.355
InChI Key: YSEXVIPNIGQQMN-UHFFFAOYSA-N

Highest Clinical Phase: Preclinical

Chemical Names and Synonyms

N-benzyl-4-azahexacyclo[5.4.1.02,6.0.05,9.08,11]dodecan-3-ol

★ Druglikeness

Lipinski rules component										
Molecular Weight	265.355									
logP	2.434									
НВА	2									
HBD	1									
Matching Lipinski Rules	4									
Veber rules component										
Polar surface Area (PSA)	23.47									
Rotatable bond count	2									
Matching Veber rules	2									

★ In vitro: Efficacy (1)

Quantitative Results

Parameter	Value (qual)	Value (quant)	Unit	Action on Target	Target	Target subunit	Target Species	Tissue/Organ	Cell	Bioassay	Dose	Effect	Reference (ex
Kī	=	12	nM	Radioligand (/ligand)	Opioid Receptor, Sigma 2		Rat		PC12		= 100 µM	binding activity	Bioorganic and Title/Abstract

RMC 2 CONTENT

Patents Origin and starting date

>90 000 Patents

• US: 1971-present

• EP: 1979-present

• WO: 1978-present (English only)

 Patents are coming from the A61K class mainly but not only.

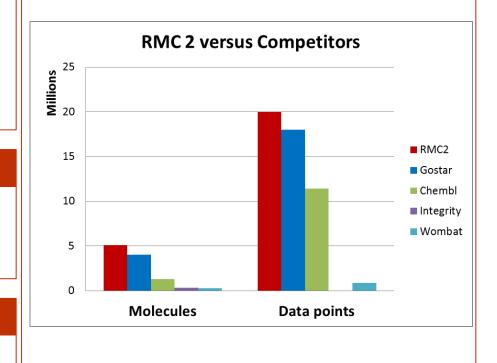
Articles and Journals

- >5000 Journals Covered
- >230 000 Articles
- From 1980 to Present

Drugable Targets

>9000 Drugable Targets

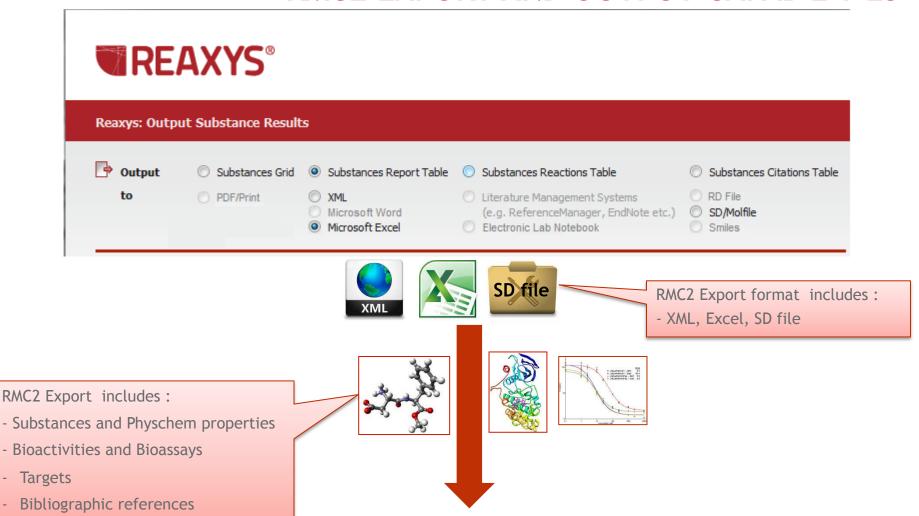
« The most comprehensive medicinal chemistry solution on the market »







RMC2 EXPORT AND OUTPUT CAPABILITIES







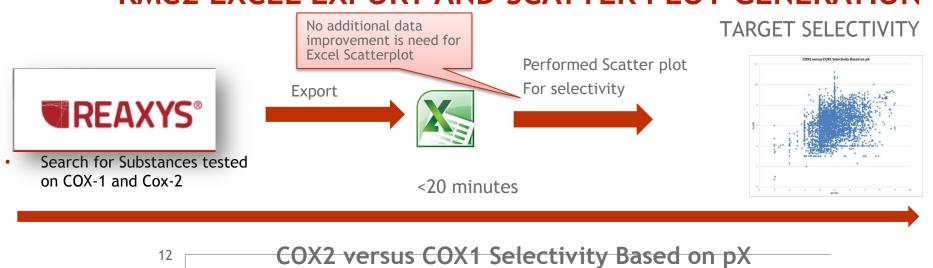


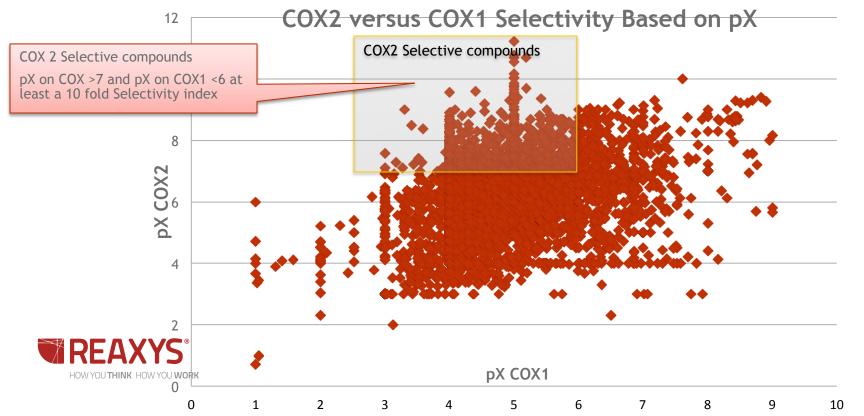
RMC2 Export is compatible with:

- Pipeline pilot
 - Spotfire Etc...



RMC2 EXCEL EXPORT AND SCATTER PLOT GENERATION





and... what is your reaction?

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LIFE SCIENCES SOLUTION CONSULTANT

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P.GOLKIEWICZ@ELSEVIER.COM

MOBILE: +48 695 30 60 17

