

Elsevier Reaxys使用介绍

俞靓 (Sam Yu) Elsevier Life Science Customer Consultant Mail:S.yu.2@Elsevier.com Phone: 18930408012



Agenda

- Reaxys内容与发展规划
- Reaxys中的检索
 - Reaxys对文献的提炼
 - Reaxys中物性数据的查询与反向检索
 - Reaxys中的结构面板与复杂反应定义
 - Reaxys中的实用小案例
- Q&A





Reaxys是Elsevier旗下Life Science产品线中基于数据深度提炼与挖掘的化学及相关学科的科研信息平台

6,000万文献

(Elsevier, ACS, Nature-Springer, Blackwell, Taylor and Francis,etc)

150万专利

WPO, USPO, EPO [≈ mid 70's >] PO: JP, KR, CN, TW [2015 >] 2020年将扩展到100家专利机构

38万书的章节

Beilstein, Gmelin,....





Reaxys的战略是为化学研究的全生命周期,提供完整的化学生态系统



不断利用AI/ML技术, 引领数据库到解决方案的行业升级

Reaxys等Elsevier Life Science 全线产品都在朝解决方案方向发展

越来越多的AI/ML技术融入到数据库中

靶点预测

Target	Common name	Uniprot ID	Target Class	Probability*	Kn act (3D
Adenosine receptor A2a	ADORA2A	P29274	Membrane receptor		584
Adenosine receptor A2b	ADORA2B	P29275	Membrane receptor		170
Adenosine receptor A1	ADORA1	P30542	Membrane receptor		488
Adenosine receptor A3	N/A	P33765	Membrane receptor		690
Neuropeptide Y receptor type 5	NPY5R	Q15761	Membrane receptor		299
Cannabinoid receptor 1	CNR1	P21554	Membrane receptor		1418
5-hydroxytryptamine receptor 2A	HTR2A	P28223	Membrane receptor		106
5-hydroxytryptamine receptor 2C	HTR2C	P28335	Membrane receptor		54
Cannabinoid receptor 2	CNR2	P34972	Membrane receptor		1633
Corticotropin-releasing factor receptor 1	CRHR1	P34998	Membrane receptor		216
Sodium-dependent serotonin transporter	SLC6A4	P31645	Transporter		12
Phosphatidylinositel 4,5-bisphosphate 3-kinase catalytic subunit delta isoform	PIK3CD	O00329	Enzyme		100
Cathepsin L1	CTSL	P07711	Cysteine Protease		159
Epidermal growth factor receptor	EGFR	P00533	Tyr Kinase		674

利用动物临床前数据预测药物临床安全性

MMP分析

合成预测

Elsevier Life Science Solution中已经开始融入不同领域的AI技术

Agenda

- Reaxys内容与发展规划
- Reaxys中的检索
 - Reaxys对文献的提炼
 - Reaxys中物性数据的查询与反向检索
 - Reaxys中的结构面板与复杂反应定义
 - Reaxys中的实用小案例
- Q&A

一篇常见的化学相关文献的构成

Reaxys对这篇全文的提炼

Assessment of the regioselectivity in the condensation reaction of unsymmetrical o-phthaldialdehydes

with alanine

D'Hollander, Agathe C.A.; Westwood, Nicholas J. - [Tetrahedron, 2018, vol. 74, # 2, p. 224 - 239]

Abstract 🔨 Index Terms 🔨 Substances 103 🗸 Reactions 236 🗸 Full Text 🏹

Abstract

One approach for the synthesis of isoindolinones, a privileged bioactive heterocyclic core structure, involves a conden-

sation reaction of o-phthaldialdehydes with a suitable nitrogen-containing nucleophile. This fascinating re visited here in the context of the use of o-phthaldialdehydes that contain additional substituents in the aro leading to a detailed analysis of the regioselectivity of the reaction. Eleven monosubstituted o-phthaldialde synthesised and reacted with alanine. The regioselectivity observed across the eleven substrates led to the disubstituted substrate that reacted with very high control. A gram-scale reaction followed by esterification major regioisomer in high yield. In addition, the regioselectivity observed on reaction of two novel monod substrates led to an increased mechanistic understanding.

Index terms

Author keyword: Condensation reaction, Mechanistic understanding, o-phthaldialdehyde, Regioselectivity EMTREE drug term: alanine, phthalaldehyde

EMTREE medical term: Article, esterification, polymerization, priority journal, regioselectivity, synthesis

Reaxys Index Terms: Swern oxidation, condensation reaction, esterification, pure, reactivity, regioselectivity, separation method, tautomerization

Assessment of the regioselectivity in the condensation reaction of unsymmetrical o-phthaldialdehydes

¹ with alanine

ELSEVIE

D'Hollander, Agathe C.A.; Westwood, Nicholas J. - [Tetrahedron, 2018, vol. 74, # 2, p. 224 - 239]

Abstract 🗸 Index Terms 🗸 Substances 103 🗸 Reactions 236 🗸 Full Text 🏹

Reaxys对于文献中的结构与反应都 做了提炼

22a

90%

4-substituted series

21a

OH MeO

rr 69 : 31

 \cap

20a O

Ή

MeO

Reaxys对文献中的化合物的结构化数据提炼

Label	Reference D'Hollander, Agathe C.A.; Westwood, Nicholas J [Tetrahedron, 2018, vol. 74, # 2, p. 224 - 239] Full Text								
21a									
Melting Point, °C Reference									
194 - 196 D'Hollander, Full Text 7			Hollander, Agat I Text ⁊ De	he C.A.; Westw etails > Ab	vood, Nichola stract >	s J [Tetrahedron, 2018 , vol. 74, # 2, p. 224 - 239]			
Colour & Other Location Properties		lion	Reference						
white supporting information		orting mation	D'Hollander, A - 239] Full Text 7	Agathe C.A.; We Details >	stwood, Nicholas J [Tetrahedron, 2018, vol. 74, # 2, p. 224 Abstract >				
Description (NMR Spectroscopy)	Nucleus (NMR Spectros	scopy)	Solvents (NMR Spectroscopy)	Frequency (NMR Spectroscopy), MHz	Location	Reference			
Chemical shifts, Spectrum	1H		d(4)-methanol	500	supporting information	D'Hollander, Agathe C.A.; Westwood, Nicholas J [Tetrahedron, 2018, vol. 74, # 2, p. 224 - 239] Full Text 🛪 Details > Abstract >			
Chemical shifts, Spectrum	mical 13C is, ctrum		d(4)-methanol	125.8	supporting information	D'Hollander, Agathe C.A.; Westwood, Nicholas J [Tetrahedron, 2018, vol. 74, # 2, p. 224 - 239] Full Text 7 Details > Abstract >			

文献中出现的化合物性质,全部直接抽提,或者 给出文献中出现的位置,方便科研人员直接获取, 或节省查找阅读全文的时间。

Reaxys对原文反应的提炼(21a)

Reaxys从文献中提炼出来的内容

化合物 Database
>150 million
源自文献专利中的 报道,供应商品库 (2020将继续扩大 供应商名录)
性质 Database
> 500 million
化合物实验数据, 并提炼实验数据检 测条件

数据更新时间: 2020/8/9

Reaxys 2020年专利计划

2020年专利奖扩大到100家专利机构的专利

Agenda

- Reaxys内容与发展规划
- Reaxys中的检索
 - Reaxys对文献的提炼
 - Reaxys中物性数据的查询与反向检索
 - Reaxys中的结构面板与复杂反应定义
 - Reaxys中的实用小案例
- Q&A

Reaxys的登录界面

- IP范围内,浏览器输入<u>www.Reaxys.com</u>,可以直接进行检索,推荐Chrome, Firefox浏览器,
- 收藏夹收藏的链接建议只收藏www.Reaxys.com

Quick search Query builder Results Synthesis planner History Register > Sign in Import Search substances, reactions, documents and bioactivity data in Reaxys, Reaxys Import Import Import Search Reaxys Search Reaxys Read to the search Import Import	Tips: 1. 账号注册(可选),注册帐号后,可以使用提 醒,结果集保存,结果导出功能(2020.8以后 2. Quick Search,快速检索,结构反应检索,或
Substance Effect, e.g. anticoagulant	 者输入目然语言, Reaxys智能分析语义进行检索。 3. Query Builder, 组合检索,利用Reaxys中的 名称字段进行组合、实现不同检索需求
Content Overview Latest update: 07. August 2020 > 118M 49M 59M 37M → Substances ▲ Reactions ♣ Documents ♣ Bioactivities	初刊子权近门组百, 实现不问他系需求。 视频介绍: 1. Reaxys主界面: <u>https://b23.tv/av92441795</u> 2. Quick Search: <u>https://b23.tv/av92445805</u>
ELSEVIER Copyright © 2020 Elsevier Life Sciences IP Limited. Terms and Conditions Privacy policy About content Performance Page Cookles are used by this site. To decline or learn more, visit our Cookles page Feedback Q	3. Query Builder: <u>https://b23.tv/av92565153</u>

Case 1: 快速获取化合物的理化性质

Reaxys	Quick search Query builder Results Synthesis planner History	Register > Sign in ⑦
	Search for solubility of gefitinib	Import 🛃
	Search Reaxys solubility of gefitinib	
	Substance Properties, e.g. ferroelectric materials AND	
Tips: 快速获取某个化合物	ن المعنوب المعنوب المحمول المحم محمول المحمول ا	
溶解性数据。		
	Content Overview Latest update: 30. March 2020 >	
	118M 49M 59M 37M ≫ Substances A Reactions Documents ● Bioactivities	
ELSEVIER Copyright © 2020 Elsevier Life S Terms and Conditions Privac Cookies are used by this site. To	ciences IP Limited. cy policy About content Performance Page decline or learn more, visit our Cookies page	≪ RELX Group™
ELSEVIEX		

Quick search Query but	lder Results Syntl	hesis planner	History		1 Sub	ostances out of 7,831 Docum	nents, containing 130 Reactions, 1,103 T	Targets		Reaxys - 1 🗸
Results for solubility of gefitinib				New 🔿 Edit 🌶		Limit To Exclude	Export Preparations	લ0 લ	Sort by No of References \downarrow \checkmark	Grid 👥 Heatmap 🔛
ک ^و 1 Substances Structure : و ا Edt in Query Builder	es drawn AND Propert	y : solubility	Preview Results 🗸 🗸 V	iew Results >	1		genunio C ₂₂ H ₂₄ N ₄ CIFO ₃ 446.909 894952 Hit Data - 4	13 184475-35-2 Bioactivity (All)	Other Data - 3,436	Preparations - 83 > Reactions - 130 >
178 Documents Titles, Abstracts, H Edit in Gwwy Builder	Keywords ∶"solubility", "ge	efitinib"	Preview Results V	iew Results >	4	₽⊘₁ @ ≡ ₽₽	Druglikeness	Spectra - 75		Targets - 1,103 > Documents - 7,831 >
341,792 Documents Titles, Abstracts, H Edit in Query Builder	Keywords ∶"solubility"		Preview Results V	iew Results >		∧ Hit Data - 4				
23,178 Documents Tiles, Abstracts, H Eds in Query Builder	Geywords ∶"gefitinib" & Create Alert ♀		Preview Results V	iew Results ≯		Solubility (MCS) - 4	<u>4 hits out of 4</u>			
	A Solubil	ity (MCS) - 4	hits out of 4			/				Show/Hide columns V
抽提的数据包括 具体的数值,或	Solubility, g·l ⁻¹	Saturation	Temperature (Solubility (MCS)), °C	Solvent (Solubility (MCS))	Location	Comment (Solubility (MCS	5))	Reference		
者相关的文字性 描述						freely soluble in DMSO,TH 2-butanol and slightly solu ethanol,methanol, EG and	IP and PEG-400, sparingly soluble in Ible in 1-butanol, IPA, I PG	Alanazi, Abdullah; Alshehi Molecular Liquids, 2020, Full Text 7 Details >	ri, Sultan; Altamimi, Mohammad; Sha , vol. 299, art. no. 112211] Abstract >	keel, Faiyaz[Journal of
						soluble in water and 1-octa	anol	Wu, Kuen-Da; Chen, Grac Medicinal Chemistry Let Full Text 7 Cited 1 time	te Shiahuy; Liu, Jia-Rong; Hsieh, Che tters, 2019, vol. 10, # 1, p. 22 - 26] s 7 Details Abstract	n-En; Chern, Ji-Wang[ACS
	0.009832	in pure solvent	25	water	supporting information			Wang, Xin-Xin; Tian, Fei-Y. Tao, Zhu[Tetrahedron, 20 Full Text Potails >	ang; Liu, Ming; Chen, Kai; Zhang, Yu 19, vol. 75, # 37, art. no. 130488] Abstract >	n-Qian; Zhu, Qian-Jiang;
ELSEVIER	0.0021	in pure solvent	20	water				Zhao, Feng; Lin, Zhaohu; Medicinal Chemistry Let Full Text 7 Cited 22 tim	Wang, Feng; <u>Zhao, Weili; Dong, Xiao</u> t ters, 2013 , vol. 23, #19, p. 5385 - 53 es ⊐ Details > Abstract >	chun[Bioorganic and 88]

Reaxys中化合物更多的理化性质

Case 2: 理化性质的高级应用

• 获取KCI在乙醇中的溶解度

Reaxys	Quick search Query builder Results	Synthesis planner History		Register >	Sign in 💿			
	Search in: Reactions >			Search fields	Q			
坐 🖻 🕤 🛅 Import Save Reset form Delete all		Structure Molecular Formula CAS	♯ は SRN TI, AB & KW	Fields Forms	History Reaxys 🔨			
				Identification	~			
				Physical Properties	~			
				Spectra	~			
			•	MedChem	~			
	Drag & Drop to build a new query			Other	~			
	Brag a Brop to baild a riow quory			Reactions	~			
				Bibliography	~			
					PubChem 🗸			
					eMolecules 🗸			
					LabNetwork 🗸			

Reaxys中的Query Builder 可以按照一定的规则构建检 索式,Reaxys一共提供 180+字段和字段组,科研 人员可以自由的对这些字段 和字段组进行组合,同时 Reaxys也根据一些常见的 需求,内置了多种检索策略 模板,如"天然产物", "hERG"等

Reaxys		Quick search Query builder Resu	ts Synthesis planner History			
		Search in: Reactions >	Targets > Substances >	→ Step3:进行物质检索		
⊥ 🖳 🎲 🛅 Import Save Reset form Delete all		4	Carl Structure Molecular Formula CAS RN TI, AB & KW			
Molecular Formula	is 🗸	ксі	₩6 ×	Step1: 输入分子式KCI		
AND 🗢 Solubility	Find any	Hide fields ^ Solubility, g·I-1	× <u>R</u>	Solvent (Solubility (MCS)) 1	Q eth	××
	is ·	Saturation Temperature (Solubility (MCS)), *C ethanol Ratio of Solvents	83 民 民 民	ethane-1,2-diamine ethane-1,2-diol ethanesulfonic acid	23 100 1 5.024	
		Step2: 在溶	剂一块选择乙醇	ethanol (99.4percent) ethanol (99.8percent) ethanol (99.9percent) ethanol (99percent) ethanolamine ethyl acetate	1 1 2 3 3 1,062	* * *
ELSEVIER				 ethyl benzoate ethyl carbamate ethyl nitrate I < 38 of 67 > >I Go to page > 	7 6 2 Clear selected × Tra	ansfer >

1 Substances out of 7,363 Docume	nts, containing 4,322 Reactions, 6	18 Targets २ <mark>०</mark>	Sort by No of References \downarrow \checkmark	Reaxys - 1 V Grid III Heatmap 🖽		 Solubili 	<u>ty (MCS) - 20 hit</u> :	<u>s o</u>
1 CIK	potassium chloride CIK 74.5513 3534978 Hit Data - 20	Bioactivity (All)	Other Data - 791	Preparations - 415 义	9	Solubility, 3 ^{.1-1}	Temperature (Solubility (MCS)), °C	S (* (1
Ø₁ @ ≡ 81ª	Identification Druglikeness	Physical Data - 2,976 Spectra - 184		Reactions - 4,322>Targets - 68>Documents - 7,363>			20	e
 ▲ <u>Hit Data - 20</u> ✓ <u>Solubility (MCS) - 20</u>) hits out of 429					•	25	e
					_		30	e

Reaxys直接给出具体的数据和数据的文献出处, 其实也可以设定更多的条件,如温度......

∧ <u>Solubili</u>	ity (MCS) - 20 hits	out of 429		
				Show/Hide columns 🗸
Solubility, g·l ⁻¹	Temperature (Solubility (MCS)), °C	Solvent (Solubility (MCS))	Comment (Solubility (MCS))	Reference
	20	ethanol	Solubility: 0.012 mol/kg solvent	El-Dossoki[Indian Journal of Chemistry, Section A: Inorganic, Physical, Theoretical and Analytical, 2005, vol. 44, # 8, p. 1594 - 1596] Full Text R Cited 6 times R Details > Abstract >
	25	ethanol	Solubility: 0.025 mol/kg solvent	El-Dossoki[Indian Journal of Chemistry, Section A: Inorganic, Physical, Theoretical and Analytical, 2005, vol. 44, # 8, p. 1594 - 1596] Full Text R Cited 6 times R Details > Abstract >
	30	ethanol	Solubility: 0.037 mol/kg solvent	EI-Dossoki[Indian Journal of Chemistry, Section A: Inorganic, Physical, Theoretical and Analytical, 2005, vol. 44, # 8, p. 1594 - 1596] Full Text R Cited 6 times R Details > Abstract >
	35	ethanol	Solubility: 0.043 mol/kg solvent	EI-Dossok/[Indian Journal of Chemistry, Section A: Inorganic, Physical, Theoretical and Analytical, 2005, vol. 44, # 8, p. 1594 - 1596] Full Text R Cited 6 times R Details > Abstract >
0.320571		ethanol		Abakshin, V. A.; Eliseeva, O. V.; Krasnoperova, A. P.; Lebedeva, L. T.; Krestov, G. A.[Doklady Physical Chemistry, 1991, vol. 317, p. 303 - 306][Dokl. Phys. Chem. (Transl. of Dokl. Akad. Nauk.), 1991, vol. 317, p. 1140 - 1143] Full Text R Details >
	20	ethanol	Solubility: 1.270E0 mol/1000mol solvent	Kim; Dunlap[Journal of the American Chemical Society, 1931, vol. 53, p. 393] Full Text オ Details >
	45	ethanol	Solubility: 1.277E0 mol/1000mol solvent	Kim; Dunlap[Journal of the American Chemical Society, 1931, vol. 53, p. 393] Full Text \varkappa Details $>$

Case 3: "特定研究领域"的催化剂选择

• 检索可用于立体选择性催化的含Fe的催化剂

Reax	sys°	Quick search	Query builder Results	Synthesis planner Histo	ory	Register > Sign in ⑦
		Search in:	Reactions > Targets >	Substances > Doc	cuments >	Search fields Q catalyst ×
یک Import	Save Reset form Delete all		Struc	ture Molecular Formula CAS RM	N TI, AB & KW	Reaxys 🔨
	Molecular Formula	is Y Molecula	ar Formula		: EQ X	Contalyst Investigation
AND	Catalyst Investigation	Find any Hide fie is Investig is Specific is Classific is Type of is Co-cata	Ids ^ ated characteristic(s) ation of catalysis cation of catalysis reaction lyst/co-substrate name			Reagent/Catalyst Tips: 手动添加MF 与 Catalyst Investigation的字段.

Red	axys	Quick search	Query builder Results	Synthesis planner History	Registe	er > Sign in ③		
311	Filters Limit to > Exclude >	311 Substances out of 33,712 Documents, containing 28,346 Reactions, 70 Targets Exclude > ○ ① ▲ ▲ ● ● ▲ ▲ ▲ ● ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ↓ ↓						
	By Structure Measurement pX Highest Clinical Phases		ferrocene ((C ₅ H ₅)2Fe) 186.036	11756767 102-54-5 Bioactivity (All)	Other Data - 241	Preparations - 896 义		
	Targets		Identification Druglikeness	Physical Data - 3,483 Spectra - 514		Reactions - 3,636 > Targets - 1 > Documents - 13,609 >		
	Substance Classes V	∧ <u>Hit Data - 2</u>	C	Reaxys给出	的结果与证据			
	Number of Fragments ~ Availability ~	Catalyst Investigated	tigation - 2 hits out of 25 Specification of Type of	Location Co-catalyst/co-substrate	Reference	Show/Hide columns 🗸		
	Availability in other databases	characteristic(s)	catalysis reaction (Catalyst Investigation)	name				
	Document Type	Catalytic activity, Diastereomeric excess	Stereoselective Olefination catalysis	bathophenanthroline	Gao, Pin; Wu, Hao; Yang, Jun-Cheng Letters, 2019, vol. 21, # 17, p. 7104 Full Text 7 Details > Abstract >	; <u>Guo, Li-Na[</u> Organic - 7108]		
	Publication Year Patent Assignee	Catalytic activity, Diastereomeric excess	Stereoselective Annulation catalysis	supporting information	Hou, Zhong-Wei; Yan, Hong; Song, Ji [Chinese Journal of Chemistry, 20 - 915]	n-Shuai; Xu, Hal-Chao 18, vol. 36, # 10, p. 909		
	LogP ~				Full Text A Cited 26 times A Det	ails > Abstract >		

Case 4: 获取在可见光下,水溶液中呈现蓝色的化合物

Reaxys	Quick search Query builder Results	Synthesis planner History	Register ≻ Sign in ⑦
	Search in:	Reactions > Targets > Substances > Documents >	Search fields Q UV X
业 回 う 値 Import Save Reset form Delete all	•	C HILL CAS RN TI, AB & KW	Reaxys 🔨
 ◇ UV/VIS Spectroscopy Find any Hide fields ^ is ∨ Description (UV/VIS is ∨ Solvent (UV/VIS Spectroscopy) 	: Spectroscopy) ectroscopy)	× ह्य	⊗ UV/VIS Spectroscopy
= V Absorption Maxima = V Ext./Abs. Coefficien	(UV/VIS), nm t, I-mol-1cm-1	Solvent (UV/VIS Spectroscopy)	Q Search ×
如果想呈现蓝色,那么需要 收580-600nm的光	钙吸	(2)h8-toluene (cd3)2co=acetone-d6 (ph 3.5) (ph 5.5) (ph 7.0) 选择溶剂的时候, (ph 7.0) 物质名称都输入下 (ph 8.9) 要同时查询Waters 1,1,1-trichloro-ethane 1,1,1-trichloro-ethane 1,1,2-tetrachloro-ethane	66 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ISEVIER		1,1,2,2-letrachioroethane 1,1,2,2-letrachioroethylene I 1 of 107 >I Go to page >	204 68 Clear selected × Transfer >

最后的检索策略与结果

Reaxys'	Quick search Query builder Results Synthesis Search In: Reactions > Reactions > Reactions >	hesis planner Hist	ances > Documents >	物质检索。						
业 I™ ℃ 前 Import Save Reset form Delete all		Structure Molecula	Formula CAS RN TI, AB & KW							
UV/NIS Spectroscopy Find any Hide fields is Description (UV/V	TS Spectroscopy)		×							
is ∨ h2o,water = ∨ 580-600	Reaxys		Quick sear	ch Query builder <mark>Results</mark>	Synthesis planner	History		Registe	er > Sign in	0
= ✓ Ext./Abs. Coefficie	2.08 K Filters	0	selected 🔅 🧭	A Preparations methylene blue c university and the set of th	040.050 0500.07	Q O	€ So	rt by No of References 🔸 🗸	Grid 🛄 Heatn	map 🎛
	By Structure	3		$C_{12}H_0NS(N(CH_3)2)2^{m+n}C(N^{-n}=C_{12}H_0$ Hit Data - 2 Identification	Bioactivity (All) Physical Data - :	152071-32-4	Other Da	ata - 633	Preparations - 29 Reactions - 288	> >
	Highest Clinical Phases	~ ~	ੲ⊘₁ ਦ ≡ ਃਾ	Druglikeness	Spectra - 374	escopy - 2 hits out of 25	2	107	Targets - 79	ow/Hide columns
	Parameters	~	∧ Hit Data - 2		Description (UV/VIS Spectroscopy) Spectrum	Solvent (UV/VIS Spectroscopy)	Absorption Maxima (UV/VIS), nm 600, 665	Ponedel/Kina: Sibagatulin/Russian Cherr Full Text > Details > Abstract >	nical Bulletin, 2011, vol. 60, # 4, p. 67	76 - 678]
	Substance Classes Molecular Weight	× ▼	V UV/VIS Spectroscop	by - 2 hits out of 252	Absorption maxima	H20	600, 655	Miyoshi, Norio; Tomita, Girti[Zeitschrift fu Organische Chemie, 1980, vol. 35, ≢ 6, Full Text ≯ Details > Abstract >	r Naturforschung, Teil B: Anorganis p. 741 - 745]	sche Chemie,
	Number of Fragments	× 4		$\label{eq:c13} \begin{array}{l} \textbf{rhodamine B} \\ \textbf{C}_{13}\textbf{H}_{8}\textbf{O}(\textbf{N}(\textbf{C}_{2}\textbf{H}_{5})2)2\textbf{C}_{8}\textbf{H}_{4}\textbf{COOH}^{(1+)*} \end{array}$	479.019 4091619	81-88-9				
	Availability in other database	s~	C C C C C C C C C C C C C C C C C C C	Hit Data - 1 Identification	Bioactivity (All) Physical Data - :	593	Other Da	ata - 91	Preparations - 13 Reactions - 1,089	>
	Available Data	~		Druglikeness	Spectra - 678	iscopy - 1 hits out of 43	0		Targets - 6	>
	Publication Year	~			Description (UV/VIS Spectroscopy)	Solvent (UV/VIS Spectroscopy)	Absorption Maxima I (UV/VIS), nm	Reference	Sho	ow/Hide columns N
	Patent Assignee	~	 HIT Data - 1 UV/VIS Spectroscop 	by - 1 hits out of 430	Spectrum	water	554, 582	Prakash, Kasirajan; Senthil Kumar, Puvaneswa (Research on Chemical Intermediates, 2019 Full Text R Details > Abstract >	ran; Pandiaraj, Sekar; Karuthapandian 9, vel. 45, # 3, p. 1147 - 1167]	n, Swaminathan

Agenda

- Reaxys内容与发展规划
- Reaxys中的检索
 - Reaxys对文献的提炼
 - Reaxys中物性数据的查询与反向检索
 - Reaxys中的结构面板与复杂反应定义
 - Reaxys中的实用小案例
- Q&A

Reaxys中的结构面板

一些常见的功能使用视频

常用功能	视频链接
最基本功能	https://www.bilibili.com/video/av92474230
不定位键	https://www.bilibili.com/video/av92568326
通用/缩写官能团	https://www.bilibili.com/video/av92474816
原子列表与列表非	https://www.bilibili.com/video/av92571129
R基团定义	https://www.bilibili.com/video/av92569854
原子锁定与环锁定	https://www.bilibili.com/video/av92833557
G Group与通用原子	https://www.bilibili.com/video/BV1Tp4y1y7SS
原子属性列表	https://www.bilibili.com/video/BV1B54y197G6
盐,自由基,同位素	https://www.bilibili.com/video/BV1pg4y1z7AB

一些简单案例视频

常用功能	视频链接
合成计划的制作	https://www.bilibili.com/video/av92577710
机理性文献查询	https://www.bilibili.com/video/av92580572
反应定义基本操作	https://www.bilibili.com/video/av92574819
反应条件的定义	https://www.bilibili.com/video/av92581106

Case 5: Reaxys中最简单的反应定义与筛选

- 检索以下核心结构反应并进行反应筛选操作
- 视频操作过程
 - <u>https://b23.tv/BV1KZ4y147PQ</u>

Reaxys中的结果

ELSEVIER

Reaxys的一条反应的界面

Reaxys的筛选操作

Filters	
Limit to 🔪 Exclu	de >
By Structure	~
Yield	~
Reagent/Catalyst	~
Solvent	~
Catalyst Classes	~
Solvent Classes	~
Product Availability	~
Reactant Availability	~
Reaction Classes	~ _
Document Type	~
Publication Year	~
Single step reactions	only
Experimental procedu	re only

Yield	^
>95 - 100	924
>90 - 95	835
>85 - 90	614
>80 - 85	456
>75 - 80	375
>70 - 75	287
>65 - 70	223
Filter by value 🗸	View more

Document Type	^
article	7,543
patent	3,181
review	68
conference paper	44
letter	11
short survey	4
note	4
	View more

Reagent/Catalyst	^	
sodium tetrahydroborate	7,079	
methanol	1,387	
potassium carbonate	1,236	
water	690	
lithium aluminium tetrahydi	ride 639	
hydrogen	620	
hydrogenchloride	599	
Filter by value 🗸 View	v more	

 $\mathbf{\wedge}$

View more

Publication Year

Filter by value 🗸

Solvent	^
methanol	4,014
tetrahydrofuran	3,375
ethanol	2,025
water	1,395
dichloromethane	1,268
n,n-dimethyl-formamide	1,105
toluene	515
Filter by value 🗸 View	v more

常见的一些反应筛选工具, 如:收率,催化剂/试剂,溶剂, 文献类型,出版年限等

Reaxys中的一些特殊筛选工具—溶剂分类

Solvent Classes	^	Solvent Classes		×
Low boiling (<100°C) Green Protic Aprotic apolar Yellow Aprotic dipolar Red High boiling (>150°C) Middle boiling(100°C - 150 Vie	8,385 6,424 6,352 4,172 4,056 3,179 3,119 1,354 50°C) 912 88	 Solvent Classes Low boiling (<100°C) Green Protic Aprotic apolar Yellow Aprotic dipolar Red High boiling (>150°C) Middle boiling(100°C - 150°C) Inorganic 		10,112 8,385 6,424 6,352 4,172 4,056 3,179 3,119 1,354 912 88
		Clear selected ×	Exc	clude >

Reaxys中的一些特殊筛选工具—催化剂分类

Catalyst Classes	^	Catalyst Classes	×	<
active center	8,926			~
heterogeneous	297	✓ ☐ Catalyst Classes	10,112	
	52	✓ □ active center	8,926	
organism / enzymes	52	> 🗅 B	7,587	
Vie	ew more	> 🗅 AI	956	
		> 🗅 Pd 🧰	803	
		🛰 🗠 Cu 🧰	288	
		copper(I) iodide	160	
		copper	40	
		copper(II) oxide	35	
		copper(I) chloride	13	
		copper diacetate	11	
		copper oxide-chromium oxide	10	~
		Clear selected X Limit to >	Exclude >	

Case 6: 结构中有特殊需求的反应定义

- 检索以下反应
 - 吡啶环上存在一个硝基,一个卤素,且这两个官能团处于邻位
 - 反应过后硝基还原成氨基
 - 定义难点:如果确保NO2和卤素处于邻位

视频操作过程: <u>https://www.bilibili.com/video/BV1ua4y147q2</u>

Reaxys中的结构定义

Case 7:选择性氧化还原脱保护反应的定义

- 结构中两个带Boc的片段,两个片段以任意的形式相接在一个分子中
- 反应过后把其中一个片段的Boc脱掉,但是另外一个Boc不变

视频操作过程: <u>https://www.bilibili.com/video/av92577868</u>

Reaxys中的结构定义

Case 8: 涉及环系变化的反应定义

• 获取以下反应

Requirement:

- 虚线部分是大于5个C原子的环
- 结构中不能发生互变异构
- 产物的CH2OH, CHO是有底物的CH3变化过来
- 视频操作(结构类似):

https://b23.tv/S08u6p

Reaxys中的定义

定义方法:

- R基团定义工具,定
 义侧链
- S*定义侧链CH2OH, 以及底物CH3无取代
- 重复基团定义工具, 定义环的大小
- 无互变异构

最后的结果

ELSEVIER

Case Study 9:

• 获取以下反应性对比的文献(收率)

Requirement:

- 希望获得在一篇文献中讨论过同一个B试剂和不同底物反应的对比
- ALK也可以是醚

Reaxys中的解决方案

Reaxys中的结果

Enabling the Cross-Coupling of Tertiary Organoboron Nucleophiles through Radical-Mediated Alkyl Transfer Primer, David N.; Molander, Gary A. [Journal of the American Chemical Society, 2017, vol. 139, # 29, p. 9847 - 9850] Abstract V Index Terms V Substances 88 V Reactions 58 V Full Text 7 Hit Reactions 8 A

专门找Hit Reaction >1的文献,先进行预览,看 是否存在相同硼试剂,不同底物的。

Agenda

- Reaxys内容与发展规划
- Reaxys中的检索
 - Reaxys对文献的提炼
 - Reaxys中物性数据的查询与反向检索
 - Reaxys中的结构面板与复杂反应定义
 - Reaxys中的实用小案例
- Q&A

Case 10: 化合物的文献定位

	Tetrahedron 74 (2018) 2.24–2.39
103333330	Contents lists available at ScienceDirect
	Tetrahedron
ELSEVIER	journal homepage: www.elsevier.com/locate/tet
Assessment of the re unsymmetrical o-phi	gioselectivity in the condensation reaction of haldialdehydes with alanine
Assessment of the re unsymmetrical o-phi Agathe CA. D'Hollander, N School of Chemistry and Normaliai Sciences	gioselectivity in the condensation reaction of haldialdehydes with alanine icholas J. Westwood [®] known compte. University of S Andrews and EditioNING North Haugh, S Andrews, Rfs, RYIS BIT, UK AB & S T R A C T.
Assessment of the re unsymmetrical o-pht Agathe CA. D'Hollander, N Schod of Chemitry and Bonatial Science A RTICLE INFO Anthe Muny Beneved 2 July 2017 Beneved 2 July 2017 Restruct a Information Restruction Information Restruction Information Accepted 13 November 2017	gioselectivity in the condensation reaction of haldialdehydes with alanine line of the second

The isoindolinones make up an important class of bioactive molecules that includes the known drugs Pazinacione (1).1a Indoprofen (2)1b and Chlorthalidone (3)1c (Fig. 1a).

Common methods of obtaining isoindolinones that are unsubstituted in the aromatic ring, for example compound 4 (Fig. 1b), include selective reduction of 5,2 reductive amination-cyclisation of 63 or 74 with a primary amine (RNH2) and, of interest here, the condensation reaction of o-phthakliaklehyde (8) with a primary amine (RNH₂).5,64

To date, the majority of studies performed on this condensation reaction have focused on evaluating the scope of the amine nucleophile that can be tolerated in the reaction ^{53,555d fa,66} and/or proposing potential reaction mechanisms.54,56,6 In contrast, examples of the use of this condensation reaction with monosubstituted o-phthaldialdehydes are rare (SI1 part I). One report describes a regioselectivity of 1:1 for the products 11:12 resulting from the 2.1. Synthesis of monosubstituted o-phthaldialdehydes condensation of 9 with 10 (Scheme 1a)7 However, the observed regioselectivity was measured only after filtration or purification by column chromatography. Isolated yields for the formation of a single isomer, 14 in most cases, resulting from the condensation of 13 with various amines have also been reported (Scheme 1b).8

· Corresponding author. E-mail address: njw3@st-andrews.ac.uk (NJ. Westwood),

https://doi.org/10.1016/j.mt.2017.11.035 0040-402080 2017 Elsevier Ltd. All rights reserved

tion (for one or for each isomer), incomplete regioisomeric ratio (rr) data within a series or have claimed to form a single regioisomer (no yield provided) without discussing the other possible isomer (SI1 part I).7-

The work reported here revisits this issue by presenting a detailed study of the regiochemical outcome of the condensation of alanine (16) with 3-monosubstituted o-phthaldialdehydes 17 (to give 18 and 19, Scheme 1c) and with 4-monosubstituted ophthaldialdehydes 20 (to give 21 and 22, Scheme 1d). Based on the initial results, the design of a highly regioselective substrate was achieved consistent with an improved understanding of the reaction. Further mechanistic insights were provided by the use of novel mono-deuterated substrates.

2. Results and discussions

Five 3-substituted o-phthaldialdehydes 17a-e were synthesised using 2-5 step routes involving either a Swern oxidation of the corresponding diol 23 or an acetal deprotection of the corresponding monoacetal 24 or diacetal 25 (Scheme 2 and SI1 part II.1 for more details). It should be noted that the synthesis of pure samples of 17a-e was particularly challenging (in line with literature reports¹⁰) with significant decomposition occurring during purification attempts and on storage. In several cases freshly

这是一篇常见的化学文献,包含:

- 1. 16页PDF全文
- 2. 2个Supporting Information的Word文档, 一个是44页, 一个37页

已知文献中报道了这个化合物,如何在上述的97页文档中 找到有关这个化合物的描述?

Reaxys中的检索

• Query Builder联合化合物结构与文献DOI号

Reaxys	Quick search Query builder Results Synthesis planner	History	Register > Sign i	n 💿
	Search in: Reactions > Targets > Substance	es > Documents >	Search fields	Q
	Structure Molecular Fr		Fields Forms History	
				Reaxys 🔨
♦ DOI	is 🗸 10.1016/j.tet.2017.11.035	R ×	Topics and Keywords	~
			Identification	\sim
AND Structure		× ×	Physical Properties	~
	НО		Spectra	~
			MedChem	~
	H ₃ C CH ₂		Other	\sim
			Reactions	~
			Bibliography	\sim
As drawn			Put	bChem 🗸
			eMo	lecules 🗸
			Feed	iback 💭

Reaxys中的结果

Red	axys			Quick search	Query builder Result	s Synthesis pl	anner History	Reg	gister > Sign in ③	
1 I Query	Filters Limit to > Exclude >		1 Sut	selected Limit To Exclude Es	rs, containing 7 Reactions, 0 Tar	gets	QO	— 🍳 Sort by No of References 🎍 🥆	Reaxys - 1 V Grid 🗰 Heatmap 🖽	
	By Structure Measurement pX	~ ~	1	HO HO	2-(6-methoxy-1-oxoisoin C ₁₂ H ₁₃ NO ₄ 235.24 320 Hit Data - 7	d olin-2-yl)propan 21463 Dru:	oic acid glikeness	Spectra - 4	Preparations - 7 义	
	Highest Clinical Phases Targets	~ ~		, , , , , , , , , , , , , , , , , , ,	Identification	Phys	sical Data - 2		Reactions - 7 > Documents - 1 >	
	Parameters Substance Classes	~ ~ (Ø ₁ @							
	Molecular Weight Number of Fragments	× ×		 Hit Data - 7 Substance Label - 1 	1 hits out of 1	Label	tance Label - 1 hits out	of 1		
	Availability Availability in other databases	~ ~	 Melting Point - 1 hit Crystal Property Des 		nits out of 1 escription - 1 hits out of 1	21a	21a D'Hollander, Agathe C.A.; Westwood, Nich Full Text 🤋 Cited 3 times 🤋 Details 3		holas J.[Tetrahedron, 2018, vol. 74, # 2, p. 224 - 239]	
	Available Data Document Type	× ×		 NMR Spectroscopy IR Spectroscopy - 1 	- 2 hits out of 2 hits out of 1					
	Publication Year	~					T Load more			

2.2. Regioselectivity of the condensation reaction of monosubstituted o-phthaldialdehydes

The mono-substituted o-phthaldialdehydes 17a-e and 20a-f were refluxed for 4 h with alanine (16, 1.2 equivalents) in anhydrous acetonitrile before the reaction was concentrated in vacuo. The crude reaction mixtures (except when specified, Table 1) were then analysed using a quantitative ¹H NMR experiment. A baseline correction was applied using MestReNova-9 software and integrations were calculated relative to one proton on deconvoluted peaks (see Fig. 2 for an example of the analysis applied to the formation of 18a/19a and SI1 part III.1 for the rest of the NMR analysis: also see the experimental section below for a detailed explanation of the analytical protocol used).

In two of the condensation reactions the structure of the major regioisomer was identified by comparison with the ¹H NMR spectrum of a pure sample of one of the regioisomers (for 18a/19a, 21a/ 22a, for the synthesis of authentic isomers see SI1 part III.2). In the rest of the cases, advanced NMR techniques (HSQC, HMBC, COSY) applied to the crude reaction mixture were used to assign the structure of the major regioisomer. Considering the analysis of the regioisomeric mixture of 18b/19b as an example (Fig. 3), the proximity of a carbonyl was observed to shift the signal corresponding to the aromatic H7 proton in 18b and the methyl H1' protons in 19b downfield (Fig. 3a and b). Identification of H7 in 18b was further validated by its correlation with C1 in the HMBC analysis of the regioisomeric mixture (Fig. 3a). In contrast, H4 in **19b** showed a correlation with C3 in this HMBC analysis (Fig. 3c). Using the correlations observed in the COSY spectrum (Fig. 3d), the signals corresponding to H5 and H6 for 18b and 19b were finally assigned. The value of the integrals in the 1D quantitative ¹H NMR

Scheme S 10: Synthesis of 18a, 19a, 21a and 22a. Reagents and conditions: (a) MeOH, H2SO4, reflux, 7-24 h, quant. for S18, 84% for S40; (b) MeI, K2CO3, DMF, 70 °C 17-18 h, 92% for S41, 99% for S45; (c) NBS, AIBN, CHCl3, reflux, 2.5-21.0 h, 97% for \$19, crude \$42 and \$43 were directly used in the next step; (d) NBS, AIBN, CCl4, reflux, 2 h, crude \$47 was directly used in the next step; (e) alanine (16), MeOH, K2CO3, reflux 19-21 h, 61% for 18a, 55% (2 steps) for 19a; (f) alanine (16), MeOH, NEt3, reflux 2-23 h, 4% (2 steps) for 21a, 4% (2 steps) for 22a.

Esterification of S17, S37, S38 and S39 was achieved in excellent yield using iodomethane or methanol with sulfuric acid (Scheme S 10).⁸ Radical monobromination⁹ of S18, S40, S41 formed S19, S42, S43 which were directly reacted⁹ with alanine (16) to obtain 18a, 22a and 21a respectively. To investigate the poor yield over two steps (2% for 18a, 4% for 21a and 4% for 22a), radical monobromination of S18 was repeated and the succinimide side product from N-bromosuccinimide was removed by a basic wash using NaOH (1 M) leading to pure S19 in 97% yield. Reaction of S19 with 16 and NEt₃ afforded 18a in only 8% yield. However, concentration of the aqueous phase showed S44 as the major product (identified by NMR spectroscopy (Figure S 5) and supported by mass spectrometric analysis (HRMS (ES^+) m/z calculated for C₁₆H₂₆NO₃ [M]⁺: 280.1907; found: 280.1910) along with the remaining NEt₃ and alanine (16). Formation of S44 was prevented by reacting S19 with K₂CO₃ instead of NEt₃ to provide 18a in good yield. This optimisation could be applied for the synthesis of 21a and 22a but was not performed since sufficient material was available.

用于文献中化合物信息的快速定位。

\$45 4.OMe

\$39. R=4-OMe

Case 11: 关键词检索时词语之间距离的设定

- 希望在主题,摘要,关键词中进行检索Optoelectronics Materials
- Optoelectronics与Materials两单词之间距离小于3,且Optoelectronics在Materials之前

Reax	sys°		Quick	search Query builder Res	ults Synthesis p	blanner History			Register >	Sign in	0
				Search in:	Reactions >	Targets > Substan	ces > Documents >		Search fields		Q
Import	Save Rese	🕤 💼 et form Delete all				Structure Molecular F	ormula CAS RN TI, AB & F	<w style="text-decoration-color: blue;">w</w>	Fields Forms	History	
				A						Rea	xys 🔨
	◇ Title:	s, Abstracts & K	is 🗸 Optoelectronic*				≅ ×		Topics and Keywor	rds	^
NEXT 3		- Ab-starsta 0.14	in S.C. Matazialt						Substance Prop Comments	erties & [3 II
		s, Abstracts & K					EQX		Reaction Data &	Conditions	
OR AND		Tip)S :						Titles, Abstracts	& Keywords	
NOT		1.	逻辑关系的选择,	And, Or, No	t			•	All Keywords		
• NEXT		2.	Near没有前后次序	,Next有前后	次序				Identification		~
PROX	MITY										

Reaxys中的结果

Re	axys		Quick search Query builder Results Synthesis planner History		Register > Sign in ⑦
3.27 K	Filters Limit to > Exclude >	3,:	269 Documents with 6,860 Substances, 5,864 Reactions, 0 Targets	ବ ୦ ୧	Sort by Cited By 🔸 🗸 Heatmap 🎛
	Index Terms (ReaxysTree)	× 1	A DNA-based method for rationally assembling nanoparticles into macroscopic materials <u>Mirkin, Chad A; Letsinger, Robert L; Mucic, Robert C; Storhoff, James J.</u> [Nature, 1996, vol. 382, # 6592, p. 607 - 609] Abstract V Index Terms V Full Text R	Cited 5220 times	Sort search results X
	Publication Year Document Type	×	Abstract hit: {useful optical, optoelectronic and material properties that derive from their small (nanoscopic) size} Nanocrystals of Cesium Lead Halide Perovskites (CsPbX ₃ , X = Cl, Br, and I): Novel Optoelectronic	Cited 2501 times	Publication Year
	Authors Patent Assignee	× 2 ×	Materials Showing Bright Emission with Wide Color Gamut Protesescu, Loredana; Yakunin, Sergii; Bodnarchuk, Maryna I.; Krieg, Franziska; Caputo, Riccarda; Hendon, Christopher H.; Yang, Ruo Xi; Walsh, Aron; Kovalenko, Maksym V. [Nano Letters, 2015, vol. 15, # 6, p. 3692 - 3696] Abstract v. Index Terms v. Substances 11 v. Reactions 5 v. Full Text 7		<u>Cited By</u> ↑ <u>↓</u>
	Substance Classes	→	Abstract hit: {are newcomer optoelectronic materials that have attracted enormous attention as solution-deposited ab	sorbing layers}	~
	Reaction Classes	~ 3	Organic materials for electronic and optoelectronic devices Shirota, Yasuhiko [Journal of Materials Chemistry, 2000, vol. 10, # 1, p. 1 - 25] Abstract ✓ Index Terms ✓ Full Text Ϡ	Cited 1546 times	有订购Scopus,可 以直接获取引文
			Abstract hit: {electronic and optoelectronic devices. The materials studied include amorphous molecular materials, tit	anyl phthalocyanine,}	以且按须取引义
		4	Thin-film transistor fabricated in single-crystalline transparent oxide semiconductor Nomura, Kenji; Ohta, Hiromichi; Ueda, Kazushige; Kamiya, Toshio; Hirano, Masahiro; Hosono, Hideo [Science, 2003, vol. 300, # 5623, p. 1269 - 1272] Abstract ∨ Index Terms ∨ Full Text >	Cited 1536 times	
			Index Terms hit: {Irradiation, Optoelectronic devices, Semiconductor materials}		~
		5	Aggregation-induced emission: The whole is more brilliant than the parts Mei, Ju; Hong, Yuning; Lam, Jacky W. Y.; Qin, Anjun; Tang, Youhong; Tang, Ben Zhong [Advanced Materials, 2014, vol. 26, # 31, p.	Cited 1483 times	

Case 12: 专利Claim中的关键词检索

- Query Builder中Patent: Claim字段 •
- 如检索自愈材料 •
 - Self-heal*
 - Material*

Reaxys	Quick search	Query builder Results	Synthesis planner History		Register > Sign in	0
		Search in: Reactions >	Targets > Substances >	Documents >	Search fields	Q
⊥ 🖳 🕤 🛅 Import Save Reset form Delete all			Structura Malagular Formula		Fields Forms History	
import Save Reservoirit Delete all		•	Structure Molecular Formula	CAS KN II, AB & KW	Rea	kys 🔨
♦ Patents: Claims	is ✔ self-heal*			R X	Topics and Keywords	~
					Identification	~
AND > Patents: Claims	is ∨ materia*			EQ ×	Physical Properties	~
					Spectra	~
					MadCharr	~
					Medonem	•

Reaxys中的结果

ELSEVIER

Reaxys		Quick search Query builder Results Synthesis planner History Register > Sign in C)
398 i≣ Query	Filters Limit to > Exclude >	398 Documents with 1,855 Substances, 1,096 Reactions, 261 Targets □ 0 selected	Ð
	Index Terms (List)	SELF-HEALING COMPOSITE AND DEVICE INCLUDING SELF-HEALING FILM Samsung Electronics Co., Ltd.; THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY; Yun, Youngjun;	
	Publication Year	Son, Donghee; Kang, Jiheong; Bao, Zhenan; Vardoulis, Orestis - US2020/2501, 2020, A1 Patent Family Members: US2020/2501 A1 Abstract X Claims X Front Page Info X Full Text 2	
	Document Type	Claims hit: {1. A self-healing composite comprising a matrix including an elastomer, and conductive nanostructures embedded in}	
	Patent Assignee	DEVICE AND METHOD FOR SEALING A MEMBRANE UNIVERSITAET ZÜRICH; DEVAUD, Yannick; MILLERET, Vincent; ZIMMERMANN, Roland; EHRBAR, Martin; OCHSENBEIN, Nicole -	
	Journal Title	US2020/8788, 2020, A1 Patent Family Members: CA3052225 A1; WO2018/141951 A1; CN110446467 A; EP3576637 A1; US2020/8788 A1; Abstract × Claims × Front Page Info × Full Text a	
	Reaction Classes V	Claims hit: {is a self-expandable patch (120).5. The membrane closure device (100) according to claim}	
		ORGANOID ARRAYS ³ Ecole Polytechnique Fèdèrale de Lausanne; HOEHNEL, Sylke; BRANDENBERG, Nathalie; LUTOLF, Matthias - US2020/10797, 2020, A1 Patent Family Members: EP3296018 A1; WO2018/50862 A1; EP3515600 A1; US2020/10797 A1 Abstract ∨ Claims ∨ Front Page Info ∨ Full Text a	
		Claims hit: {cell compatible material that supports organoid development and maintenance,more preferably wherein the cell}	
		 HEALTH MONITORING GARMENT AND SYSTEM Correrstone Research Group, Inc.; Young, Trang T.; Cridge, Mark C.; Miller, Scott A.; Nieman, Joshua E.; Cupp, Gary N.; Cable, Kristin M US2020/22431, 2020, A1 Patent Family Members: US2020/22431 A1; WO2020/23479 A1 Patent Family Members: US2020/22431 A1; WO2020/23479 A1 	
E.SN	<u>ن</u> ه.	Abstract V Claims V Front Pade Into V Full lext 7	

Case 13: 结果集的逻辑处理

• Query Builder中History选择多个结果集,进行逻辑处理

Reaxys	Quick search Query builder Results Synthesis	s planner History	Register > Sign in ⑦
	Search in: Reactions >	Targets > Substances > Documents >	Search fields Q
坐 🖳 🅤 🛍 Import Save Reset form Delete all	÷	Image: Structure Molecular Formula CAS RN TI, AB & KW	Fields Forms History Reaxys ^
398 Documents documents: (PBIB.CL)	AIMS is "self-heal*") AND (PBIB.CLAIMS is "materia*")	×	Recent ^
AND 263 Documents documents: (PBIB.CL	AIMS is "self-healing") AND (PBIB.CLAIMS is "material*")	×	documents: (PBIB.CLAIMS is "
、 只能对相同类型的结果集进	t行And,Or,Not操作		398 Documents documents: (PBIB.CLAIMS is " 263 Documents documents: (PBIB.CLAIMS is " 574 Documents documents: (PBIB.CLAIMS is "
			241 Documents documents: (PBIB.CLAIMS is "

Agenda

- Reaxys内容与发展规划
- Reaxys中的检索
 - Reaxys对文献的提炼
 - Reaxys中物性数据的查询与反向检索
 - Reaxys中的结构面板与复杂反应定义
 - Reaxys中的实用小案例
- Q&A

Reaxys小结

- Reaxys从大量文献中摘取和物质性质相关的所有数据,帮助科研人员获得标准化,规范化,格式 化的物性数据列表及参考文献
- Reaxys中的Query Builder检索帮助科研人员通过简便的方式,获得精准,跨学科的精确答案
- Reaxys中的结构面板,能实现科研人员绝大部分的结构绘制要求,帮助科研人员用最直接的方式 获得相应的物质和反应
- Elsevier Life Science线上服务:
 - 关注B站Up主: ELS生命科学,获取所有Elsevier Life Science数据库的使用视频
 - 添加Elsevier Life Science小助手微信号: ELS-LSS, 邀请进Elsevier Life Science用户群, 获取最新资料分享 以及使用Q&A

Thank you

