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SciFinder-Anleitung

Teil 1: Einführung

- **Teil 2: Weitere Funktionen in SciFinder + Hilfen**
- **Teil 3: Suche von Strukturen und Reaktionen**

Teil 4: Markush-Strukturen und Patente

Stand: 1.2.2019Achtung! Dieses Material wird von uns nicht mehr aktualisiert,
da wir bereits mit SF-n arbeiten.

SciFinder Dr. Ina Weiß, Fakultät für Biowissenschaften, Wissenschaftliche Informationsstelle am Lehrstuhl für Bioinformatik Heike Göbel, IVS der Chemisch-Geowissenschaftlichen Fakultät

Teil 1: Einführung

- Die Datenbanken in SciFinder
- Datenbanken und Suchmöglichkeiten in SciFinder
- SciFinder-Updates
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- Suchverlauf: Breadcrumbs, History und Previous Sessions
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- Speichern der Suchergebnisse, Exportformate, Drucken, Keep Me Posted

Die Datenbanken in SciFinder

- CAplus Bibliografische Datenbank > 40 Mio. Einträge ab ca.1800 (inkl. Patente)
- **MEDLINE** Biomedizinische Informationen > 24 Mio Einträge ab 1809
- **CASreact** > 77 Mio. Reaktionen ab 1840
- Registry > 91 Mio. organische und anorganische Verbindungen > 65 Mio. Sequenzen
- Chemcats > 99 Mio Käufliche Substanzen > 980 Kataloge, > 870 Händler
- Chemlist Regulated CHEMicals LISTing > 312.000, Informationen zu chemischen Substanzen aus nationalen, US-amerikanischen und internationalen Verzeichnissen und Regelwerken

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Datenbanken und Suchmöglichkeiten in

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SciFinder-Updates

• Die aktuellen Neuerungen kann man sich jederzeit über den Link "SciFinder Help/ What's New" ansehen.



Zugang zu SciFinder über das Internet

Sign In: https://scifinder.cas.org/scifinder

	A CAS SOLUTION			
Sign In		P		News & Updates
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	Remember me (Do not use on a shared computer)	100 90	Ex20°c 50/1.0t	Our new branding will also be phased into training and other support materials in the coming months If you are a Key Contact and have questions, or need assistance updating logos on any of your organization's websites, please contact the CAS Customer Center.
For Yo yo	rgot Username or Password? our SciFinder username and password are assigned to ou alone and may not be shared with anyone else.	50 50		Apply for the 2016 SciFinder Future Leaders Program! Build your career, help shape the future of research information and attend one of the most respected scientific meetings in the world. Apply for the 2016 SciFinder Future Leaders program by April 10!
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What is SciFinder	r?			scientists' direct links to key substances in the
SciFinder [®] is a res authoritative sourc	search discovery application that provides integrated access to the world's mo e of references, substances and reactions in chemistry and related sciences.	st comprehensive and		New Commercial Source Logos You may notice supplier logos in Commercial Sources listings.

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...weil es so schön aussieht:





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Registrierung bei CAS

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Dieser Link führt zur Registrierung bei CAS:

Hier bitte den jeweiligen Link der Einrichtung eintragen!



Registrierung bei CAS (2)



Registration Information

Please provide the following information: (bold* = required)

Password requirements:

7-15 characters

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- Not too similar to the username
- Not too similar to the previous password
- Includes at least three of the following:
 - Lowercase letters
 - Uppercase letters
 - Numbers
 - Non-alphanumeric characters (Examples: @, #, %, &, *)

Try again, or contact us for assistance.



Almost Finished

Thank you for completing the initial step in registering to use SciFinder®!

You will receive an email message from CAS that includes a link and instructions for completing the registration process. **You must click the link within 48 hours.** If not, you will need to begin the registration process again.

Die **Registrierung** und die anschließende **Verifizierung** (nach Erhalt eines E-Mail-Links) müssen innerhalb von 48 h und **am selben PC** gemacht werden!



Registration for SciFinder® is Complete

You have successfully completed the registration process. To sign in to SciFinder®, click the link below.

https://scifinder.cas.org/scifinder

Benutzername oder Passwort vergessen?

Link auf der Startseite anklicken und den Anweisungen folgen... https://scifinder.cas.org/password

Sign In	SCIFINDER® A CAS SOLUTION	
Username Password	Forgot Username or Password Submit this form to request your username and a link to reset your password.	SCIFINDER® A CAS SOLUTION
(Do not use on a shared computer) Sign In Forgot Username or Password? Your SciFinder username and password are assigned to you alone and may not be shared with anyone else.	Contact Information Please provide one of the following: Username: Email:	Forgot Username or Password Submit this form to request your username and a link to reset your password. Security Information Security Question: What is your favorite color?
New to SciFinder? Learn more about gaining access to SciFinder.	Next >> Clear All	Answer*: Why? Submit >> Clear All



Request Has Been Processed

You will receive an email message from CAS with instructions regarding your username and password.

Enter and confirm y	our new password
Password*:	
Re-enter Password*:	
	Submit >> Clear All

Benutzerdaten mit myCAS verwalten

https://my.cas.org

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-	About myCAS	I		I	Contact CAS	
	Co	pyright ©2010 Am	erican Chemical Socie	ety. All Rights Reserv	ved.	

Mit dem Benutzernamen und dem Passwort für SciFinder kann man seine Benutzerdaten verwalten und z.B. das Passwort ändern.

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My Profile	Personal Information		
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» Change Password

» Update Security Information

» Change Contact Information

Your Change Contact Information request has been submitted and may take up to 2 business days to be processed

Timeout

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Wenn man bei

SciFinder eingeloggt ist, aber einige Zeit nicht mit dem Programm arbeitet , dann erfolgt ein Timeout.



One Moment Please ...

Please wait while we retrieve information on the document you've selected.

Start der Suche / Einstellungen vor Recherchebeginn



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Welcome to SciFinder

Please wait while your session starts...



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By clicking the Accept button, I agree to the terms below:

- 1) I am a current faculty, staff member, or officially registered student of the University.
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- 3) I will not use SciFinder for commercial research or for organizations other than my University.
- 4) I will not share my unique username and password with any other individual.
- 5) I will not use an automated script.
- 6) I may store no more than 5,000 records in electronic form at any one time.

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Man kann jederzeit sein Passwort ändern bei **Password and Account** Information.

Die Benachrichtigung per E-Mail für Keep Me Posted-Ergebnisse ist voreingestellt, man kann sie aber ausschalten.

Mit **My Commercial Sources** kann man sich bevorzugte Lieferanten auswählen.

Es kann das automatische Entfernen von Duplikaten aus Medline permanent eingestellt werden

Festlegen der zukünftigen Startseite.

Stellen Sie die richtigen Fragen bei der Suche mit SciFinder "References/Research Topic"

Man kann in SciFinder (im Gegensatz zu anderen Datenbanken!) mit nahezu natürlichsprachigen Suchanfragen arbeiten.

Recherchetipps:

- Thema in einzelne Komponenten (Hauptgedanken) zerlegen
- Begriffe durch geeignete Präpositionen (of, in, with, by) trennen.
- redundante und zu allgemeine Worte (wie z.B. control, analysis, determination, examination, test, detection, search, study) besser weglassen:
 statt: steroid analysis with hplc besser: hplc of steroids

 mit einer mehr allgemeinen/umfassenden Suche starten und anschließend mit Refine by verfeinern

(Eingeben weiterer oder speziellerer Suchworte)
 Schrittweise Suchen!

Automatismen bei der Wortsuche in SciFinder

SciFinder sucht automatisch nach Synonymen, alternativen Schreibweisen, **Pluralformen und** verwendet **Trunkierungen:** - Vorteile: einfach - "Nachteile": Kenntnisse der **Regeln sind** notwendig

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Synonyme	cancer, neoplasm, carcinoma, tumor,
Alternative Wortformen	freeze, froze, frozen, freezing
Irreguläre Pluralformen	woman, women mice, mouse, mouses
CAS Standard- abkürzungen	oxidation, oxidn preparation, prep
Amerikanische und britische Schreibweisen	synthesize, synthesise color, colour
Trunkierung bei bestimmten Wortstämmen	Wörter mit mindestens 5 Buchstaben, die auf -tion enden: depletion = deple Wörter mit der Nachsilbe (Suffix -able , -ed , - ing : solvable =solv Wörter, die mit -e enden: game = gam (daraus wird dann z.B. gamma)

Häufige Fehler bei Suche mit SciFinder "References/Research Topic"

- Beim Suchstart werden **zu spezielle Fragen** gestellt.
- Zu viele Begriffe (Konzepte) werden eingegeben.
- Nutzer kann die große Vielfalt der möglichen Suchworte für sein Suchthema nicht richtig einschätzen und sucht folglich nicht mit genügend Synonymen.
- Adjektive in der Suchanfrage, die f
 ür mehrere Substantive gelten sollen, werden nur einmal eingegeben. (falsch: I am interested in chiral reduction or hydrogenation) (richtig: I am interested in chiral reduction or chiral hydrogenation)

 Suchworte werden mit AND verknüpft, obwohl eigentlich OR gemeint ist (HPLC of steroids and alkaloids statt HPLC of steroids or alkaloids)

- Formulieren von Fragestellungen zu Patenten, Firmen, Zeiträumen, Dokumententypen schon bei der Start-Suchfrage (I am interested in Patente zum Thema A von Autor B)
- Zu frühes Einschränken "anstatt bei großer Treffermenge mit Analysis bzw. /Refine by zu arbeiten

Start einer thematischen Suche ("References/Research Topic") und "Advanced Search"

Explore	Saved Searches ▼	SciPlanner					
search Topic "use	of strophanthin" > refere	ences (307)					
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Research Topic							
Author Name							
Company Name		Examples:					
Document Identi	ìer	The effect of antibiotic	: residu	es on dairy products			
Journal		Photocyanation of aro	matic o	ompounds			
Patent .			_				
Fags		Search					
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Das Logo fungiert gleichzeitig als Link zum Start einer neuen Suche.

Die Pfeiltasten des Browsers sollte man dagegen möglichst **nicht** benutzen!

Die Suche kann gleich am Anfang eingeschränkt werden.

Das wird allerdings als **Advanced Search** bezeichnet...

Mehrfachangaben sind möglich!

Auswahl passender Konzepte

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	0 of 5 Research Topic Candidates Selected		1	References
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	1307 references were found containing the two concepts "modeling" and "circadian clock" closely associated with one another.			1307
	4003 references were found where the two concepts "modeling and circadian clock were present anywhere in the reference.			4003
	7599335 references were found containing the concept "modeling".			7599335
	18444 references were found containing the concept "circadian clock".			18444
	Get References			

As entered: eingegebene Suchphrase wurde genauso gefunden.

Closely associated: Suchworte kommen in einem Satz zusammen vor (enthält "as entered") und sind maximal 25 Wörter voneinander entfernt.

Anywhere in the reference: Suchworte kommen **irgendwo** im Dokument vor (enthält "closely associated ").

Trefferliste der Suche mit "Research Topic"

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Get Related Citations	😤 Tools 🝷			Create Keep I Posted Alert	Me 💓	Send to SciPlanner
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e of the most consumed produce an cause of its rapid senescence, manifi	nong Brassica crops because of sted as floret yellowing. In orde	f its content in bioactive compds. such or to delay this undesirable aspect, seve	as glucosinolates and flav ral postharvest treatments	vonoids. Preserv have been explor	ation of thi	is q
hough heat treatme emptime variables	nts using arbitrary combinations for heat application. The object	of temp, and time have been found e ive of this work was to establish a tem	ffective in slowing down the iptime relationship using r	e yellowing of bro membrane electro	ccoli florets	s, e
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kinetics of electroly rescence without car	e leakage, the selection of treat sing excessive anaerobic condit	nent temp. needed to be below 42 °C, ons and/or tissue damage. Heat treatm	where the florets stored at nent of florets at temps. in f	t 10 °C/95% RH t the crit. zone led	for 10 days to excessive	s, e
espiration, while trea ips. above 42 °C. H sideration for heat tr	ments with temps, above the clear treatment at 41 °C for 180 reatment of fresh produce.	nt. zone (>45 °C) led to severe anaerol nin as hormetic heat dose for broccoli f	lorets is suggested. The res	ue damage, despri sults of this work s	suggest that	d it
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	Get Related Citations Citations Citations CHEMZENT CHEMZENT COSINOLATE molecular network rever ong; Balmant, Kelly M.; Misra, Biswapriya I , 1-19. Language: English, Database: (ales are important for human health ficient in aliph. glucosinolates and howed significant changes in the two c. These connections can be classific L anal. of the differential proteins sho e quantified 292 metabolites covering /-glutamyl amino acids, auxins and s in plants in efforts to improve hur human health. Its biosynthetic pat ind metabolomics led to identification lucosinolate metab., and will facilitat tion of hormetic heat treatment of plucosinolate metab., and will facilitat tion of hormetic heat treatment of pli forets were treated of the most consumed produce an cause of its rapid senescence, manfe hough heat treatment of forets were treated the Arrhenius plot 3 kinetics of electrolytic s above 42 °C. He sideration for heat treat ps. above 42 °C. He sideration for heat treat shinano, Takuro; Oka, N lish, Database: CAPLUS	Get Related Citations View Only Tools • cosinolate molecular network revealed by proteomics and metable nor; Balmant, Kely M; Misra, Biswapriya B; Dufresne, Craig; Abou-Hashem, N; 1-19. Language: Englsh, Database: CAPLUS alaes are important for human health and plant defense against insec nor; Balmant, Kely M; Misra, Biswapriya B; Dufresne, Craig; Abou-Hashem, N; 1-19. Language: Englsh, Database: CAPLUS alaes are important for human health and plant defense against insec nor; Balmant, Sciporates, and Michael Market Cross in a land. of the differential proteins showed high level of enrichment in 1 equantified 292 metabolites covering a broad spectrum of metabolity 'polutamyl amino acids, auxins and glucosinolate hydrolysis pros is n plants in efforts to improve human health, crop quality and proteins and metabolifucosinolate metab., and will facilitate efforts toward engineering and the metabolomics led to identification of many proteins and metabol plucosinolate metab., and will facilitate efforts toward engineering and the most consumed produce among Brassica crops because of ause of its raoid seneccence, manifested as foret yellowing. In order the Arthenius plot showed a clear broken linear pail whicks of electrolyte leakage, the selection of treat rescence without causing excessive anaerobic condities of electrolyte leakage, the selection of treat rescence without causing excessive anaerobic condities of electrolyte leakage, the selection of treat rescence without causing excessive anaerobic condities espiration, while treatments with temps, above the crips, above 42 °C. Heat treatment of fresh produce. aracterization of Brassica crops grown with different isin, Database: CAPLUS	Cet: Related ✓ View Only ✓ Tools → cosinolate molecular network revealed by proteomics and metabolomics of Arabidopsis myb28/29 and cosinolate molecular network revealed by proteomics and metabolomics of Arabidopsis myb28/29 and ong: Balmant, Kely M; Mara, Bowapriya B; Dufresne, Cnig: Abou-Hashem, Maged; Chen, Skue; ElDomisty, Maher 1:19. Language: Engleh, Database: CAUUS alse are important for human health and plant defense against insects and pathogens. Here we investigate fraction in alph, glucosinolates and nodoc glucosinolates, resp. Quart. proteomics of the myb28/29 and to the differential proteins showed high level of enrichment in the nodes belonging to metabolic proce quantifed 292 metabolies covering a broad spectrum of metabolic pathways, and 89 exhibited differential proteins showed high level of enrichment in the nodes belonging to metabolic proce quantifed 292 metabolies covering a broad spectrum. Or metabolic pathways, and 89 exhibited differential proteins and metabolics but are potentially related to gluco involates in Brassic and metabolomis let to view proteins and metabolics that are potentially related to gluco involates in Brassic and metabolics let or specification of many proteins and metabolics are potentially related to gluco involates and indicate efforts to improve proteins on the order yelowing. In order to delay this understable ageet, sex and the appendix on the above pathways and transcriptional regulation have been wel-studied. Using Ar and metabolics hat are potentially related to gluco involate profiles for (v2016).111, 118-124. Language: Engleh, Database: CAPLUS <	ett Related Wew Only Ctachoons Wew Only Charles Wew Only Wew Only Charles Wew Only Wew Only Charles Wew Only Wew	Perfected Size Catacoms Size <	Control of the second of t

Trefferliste (2)

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Author Name -	1. Preparation of dialdehyde cellulose nanocrystal as an adsorbent for creatinine Q Quick View If Other Sources	
Bras Julien 37	By Huang, Rjin; Liu, Zehua; Sun, Bo; Fatehi, Pedram From Canadan Journal of Chemical Engineering (2016). Ahead of Print, J. Language: English, Database: CAPLUS	
Rojas Orlando J 37	In this work, dialdehyde cellulose nanocrystals (DCNCs) were prepd. via oxidizing cellulose nanocrystals (CNCs) with sodium per	15 20 25 50 75 100
Isogai Akira 34	adsorbent for creatinine. The results showed that the adsorption capacity of DCNCs increased with the increase in its aldehyde conte	Displaying more answers per page may increase page-loading time
Oksman Kristiina 27	adsorption of creatinine on DCNCS became faster. The results revealed that the adsorption isotherm of DCNCS agreed with the Proprocess followed a second-order kinetic model. Overall, the max. adsorption of creatinine on DCNCs (with 4.41 mmol/g aldehyde	Layout Options
Saito Tsuguyuki 25	adsorbent for creatinine to treat chronic renal failure.	No Abstract
Liu Yong 23	 2. Preparation of a visual pH-sensing film based on tara gum incorporating cellulose and extracts from grape skins 	٤
Park Jong Cheol 23	Quick View If Other Sources By Ma, Qianyun; Wang, Lijuan	~™ ~0 ⊗
Dufresne Alain 20	From Sensors and Actuators, B: Chemical (2016), Ahead of Print. Language: English, Database: CAPLUS Exts. from grape skins (EGS) were incorporated into tara gum (TG)/cellulose nanocrystal (CNC) matrix to prep. a colorimetric pH-sensin	a film. The UV-vis spectra of EGS in the pH
Mathew Aji P 20	range of 1-10 were studied and the color clearly changed from bright red to dark green. Fourier transform-IR spectroscopy, SEM and /CNC/EGS films, and the effects of EGS addn, on mech, properties, oxygen permeability and optical properties were also tested. The	thermal anal. were used to characterize TG results revealed that EGS was successfully
Tammelin Tekla 20	introduced into the TG/CNC matrix without obvious interactions. The EGS addn. decreased the compact and continuous structure, th	ermal stability and barrier properties of the
	nm, resp.; however, the elongation at break of films increased significantly from 30.10 to 54.80%. The films were also immersed in differ changes. The color range of TG/NC/EGS film varied from red (in acid pH) to signify green (in alkali pH). The pH-sensing film was also e	valuated by an activation test on milk with
Show More	evident change in the coloration of the film, indicating that the film could be applied in food packaging for information concerning the packaging for informati	aged food.
	3. Genipin cross-linked antimicrobial nanocomposite films and gamma irradiation to prevent the surface growth of bacteria in fresh r	meats
	By Khan, Avik; Gallah, Hejer; Riedl, Bernard; Bouchard, Jean; Safrany, Agnes; Lacrok, Minisue From Innovative Fond Science & Emerging Technologies (2016). Ahead of Print Linguity: English Database: CAPLUS	~0
	A 125 µg/mL of nisin and 30 mM of disodium ethylenediaminetetraacetate (EDTA) was immobilized on the surface of the nanocrystal	(CNC)/chitosan nanocomposite films by
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Vollständiger Nachweis einer Textstelle

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By: Morelli, Carolina L.; Belgacem, Mohamed	N.; Branciforti, Marcia C.; Salon, Marie C. B.; Bras, Julien; Bretas, Rosario E. S.		0 1893, 0 1	comments	,
Celulose nanocrystals (CNC) were successful treatment decreased the CNC hydrophilic ch application. Composites of grafted and nong CNC addn. led to an increase of 50% of the retained its high modulus even at temps. far 200% higher than that of the pure PBAT. T polymn. and melt extrusion. POLYM. ENG. S Indexing	/ grafted with a low mol. wt. poly(butylene glutarate) through an "in situ" polymn. proced racter and increased the onset of their thermal degrdn. by approx. 20°C, thus increasing rafted CNC with a poly(butylene-adipate-co-terephthalate) (PBAT) matrix were prepd. by ensile elastic modulus of the PBAT. In addn., dynamic mech. thermal anal. showed that the above the glass transition temp. of PBAT. At 60°C the storage modulus of the composite us, in this work, nanocomposites of improved properties were obtained through a combi CL, 2016. © 2016 Society of Plastics Engineers.	dure. The grafting g the possibilities of CNC melt extrusion. The he composite with CNC with CNC was approx. nation of "in situ"	SOURCE Polymer E Science PagesAhea Journal 2016 CODEN:PY ISSN:0032 DOI:10.10	<i>ingineering</i> ad of Print YESAZ 2-3888 002/pen.24	' & 4367
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		Provided are methods and	d compns. for treating	and preventing	hyperproliferative disorders such as psoriasis b	y administration of a cardiac gl	lycoside
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18. Characterization and Application of Nanostructured Films Containing Au and TiO2 Nanoparticles Supported in Bacterial Cellulose

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By Dal'Acqua, Nicolle; Mattos, Alessandra Batista de; Krindges, Israel; Pereira, Marcelo Barbalho; Barud, Hernane da Silva; Ribeiro, Sidney Jose Lima; Duarte, Gian Carlos Silva; Radtke, Claudio; Almeida, Luciano Costa; Giovanela, Marcelo; et al From Journal of Physical Chemistry C (2015), 119(1), 340-349. | Language: English, Database: CAPLUS



Was bedeuten "cf. preceding abstr." bzw. "cf. following abstr."?

- Diese Aussagen beziehen sich auf die gedruckten Chemical Abstracts.
- cf.: von confer (lat.)= compare, vergleiche

AN 1971:136574

1. Combined mutagenic action of ethylenimine and EDTA. 2. Horse bean generations M2 and M3

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By Rancelis, V.; Luksa, R.

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From Lietuvos TSR Aukstuju Mokyklu Mokslo Darbai, Biologija (1969), 9, 189-203. | Language: Russian, Database: CAPLUS

Seeds of the M1 generation of the broad bean plants (cf. preceding abstr.) were germinated and grown sep. The M2 generation seeds were similarly selected, germinated, and grown for 2 months. The seed treatment with ethylenimine and (or) GENA EDTA induced qual, as well as quant, chlorophyll mutations in the M2 generation plants. With application of both compds., the chlorophyll mutation frequency considerably increased in plants of the M3 generation. The M2 generation plants consisted of albina, Xantha, chlorina, and variegata mutants, whereas plants of the M3 generation consisted also of viridis, and chloronervis types. Many other mutations were obsd. in the M3 generation plants. EDTA may delay the appearance of mutants in the M2 generation.

AN 1971:136573

1. Combined mutagenic action of ethylenimine and EDTA. 1. Modification of the spectrum of chromosome aberrations in the root tips of horse beans

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By Rancelis, V.; Baskakovaite, A.

From Lietuvos TSR Aukstuju Mokyklu Mokslo Darbai, Biologija (1969), 9, 177-88. | Language: Russian, Database: CAPLUS

Vicia faba (broad bean) seeds were soaked in 0.02 or 0.04% ethylenimine (I) and 0.20 or 0.02% di-Na EDTA for 15 hr, sep. or combined. After washing thoroughly with distd. H2O, they were grown in Koch flasks at 25°. The 1.6 cm rootlets of germinating seeds were fixed with HOAc-EtOH (1:3), 59, 69, 86, 111, 134, and 158 hr after planting, for cytol. anal. [V. N. Yurtsev method (1961)]. I and EDTA considerably decreased the mitotic activity of the cells, and increased the frequency of chromosome aberrations during anaphase and early telophase. In seeds germinating slowly, such aberrations were much less frequent. I induced more sep. and pair fragments, whereas EDTA formed chromosome aberrations. Simultaneous application of the compds. considerably increased the frequency of bridges owing to the EDTA capability to intensify restoration. The relinkage of the broken ends of chromosomes was done in the presence of EDTA, which removed di- and trivalent metals ions from them.

Reference Details: In process

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2. MWCNTs-like protection layer formation on bacterial cellulose bundles as a potential material for suspended resonator Vin Tung Lee; Xing Qiu; Pun To Yung Suspended carbon naotubes (CNTS) resonator is a sensitive detector for chemical and biological applications. Small sizes of CNTs can enhance sensitivity, but increase complexity for fabrication. In order to overcome the chalenges, a novel technique has been developed to produce a long, sensitive and high tensie strength carbon nanotubes (CNT) coated bacterial celulose (BC) bundle. This study demonstrates the use of ultrasonication can disrupt dense celulose network and produce the long BC/MWCNTs bundles ranging from 30 to 100 µm. Raman spectroscopy shows a drop at peak of hydroxyl(-OH, 3700 m(-1)) and carbonyl (C=-0, 1600 meeting in Medicine and Biology Society. IEEE International Conference of the EEEE Resonance of the service on BC surface. Electrical properties of the BC/MWCNTs bundles showed linearity from 20 to 10 µm. Raman spectroscopy shows a drop at peak of hydroxyl(-OH, 3700 m(-1)) and carbonyl (C=-0, 1600 meeting in Medicine and Biology Society. IEEE International SC/MWCNTs composite bundles is reported in this paper. This technique may be competitive to the current state of carbon nanotubes resonator. Tags 0 Tags Edit Tags 0 Comments Not were First No comments	🥎 Return																																																																																																																																								
Suspended carbon naotubes (CNTs) resonator is a sensitive detector for chemical and biological applications. Small sizes of CNTs can enhance sensitivity, but increase complexity for fabrication. In order to overcome the chalenges, a novel technique has been developed to produce a long, sensitive and high tensie strength carbon nanotubes (CNT) coated bacterial celulose (BC) bundle. This study demonstrates the use of ultrasonication to perform carboxyl functionalized multi-waled carbon nanotubes (NWCNTs-COOH) self-assembling on the surface of BC bundles (BC/MWCNTs) via hydrogen bonds. Ultrasonication can disrupt dense celulose network and produce the long BC/MWCNTs bundles ranging from 30 to 100 µm. Raman spectroscopy shows a drop at peak of hydroxyl (-OH, 3700 m(-1)) and carbonyl (C=-0, 1600 m(-1)). This indicates the formation of the continuous MWCNTs-like protection layer on BC surface. Electrical properties of the BC/MWCNTs bundles showed linearity from Bo/charbon 10(-7) to 10(-9) A of long BC/MWCNTs composite bundles is reported in this paper. This technique may be competitive to the current state of carbon nanotubes resonator. Source Tags 0 Tags Edit Tags 0 Comments Sort by: Newer First Older First No comments No comments	2. MWCNTs-like resonator	e protection laye	r formation on b	bact	cte	ict	act	ctei	eria	ial	al	l I	I	I		1	((1	1	(c	C	C	C	C	C	C					.e	:e		:e	.e	:e	e			20	D	C							e	e	e	e	:e	e	e	e	e	e	e	:e		e	:e	:e	:e	.e	:e	:e	e	:e		e	e	e	:e	:e	:e	:e	e	e	e	e	e	e	el		 			I		I	1	I	l	lı	l	ι	ι	l	l	l	l	l	l	l	lı	lı	lı	ι	ι	ι	u	u	u	u	L	l	ıl	I	I		l		l	l		k	l	
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Marhl Marko 19 Westerhoff Hans V 16 Dandekar Thomas 14 Heinrich Reinhart 13 Senges J 13 Show More	 2. Agent-based modeling approach of immune defense against spon By Tokarski, Christian; Hummert, Sabine; Mech, Franziska; Figge, Marc Thilo; Germerc From Frontiers in Microbial Immunology (2012), 3(April), 129. Language: English, D Opportunistic human pathogenic fungi like the ubiquitous fungus Aspe system renders the body vulnerable to invasive mycoses that often le medical progress, the process and dynamics of defense against in macrophages, neutrophil granulocytes form an important line of def conidia as a dynamic process of touching, dragging and phagocyto: approach is used, implemented in NetLogo. Different modes of mov persistence in their recent direction, chemotaxis of chemokines excr hunting strategy turned out to be superior to the simple random advantage of communication between neutrophilic agents showed pathogens. 3. The combinatorial multitude of fatty acids can be described by Fi By Schuster, Stefan From arXiv.org, e-Print Archive, Quantitative Biology (2013), 1-14, arXiv:1303.7189. The famous series of Fibonacci nos. is defined by a recursive equatifirst two nos. are equal to unity. Here, we show that the nos. of fa the Fibonacci nos. Thus, by investing one more carbon atom into explanation. 	res of opportunistic human pathogen odt, Sebastian; Schroeter, Anja; Schuster, Sta atabase: CAPLUS Analyze - Company-Organization ergillus fumigatus are a major threat to ead to the death of the patient. While ti nvaded and ready to germinate fungal erise in that they clear conidia. Live im sis. To unravel strategies of phagocyte rement of phagocytes are tested regardir reted by conidia and communication betwalk, following a gradient of chemokina a strong dependency on the spatial sci ton saying that each no. is the sum of it ty acids (straight-chain aliph. monocarb theonign fatty acid, an organism can init Analyze - Company-Organization Weight for the patient of
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The combinatorial multitude of fatty acids can be described by Fibonacci num By: Schuster, Stefan The famous series of Fibonacci nos. is defined by a recursive equation saying that each no. is the sum of its 1 equal to unity. Here, we show that the nos. of fatty acids (straight-chain aliph. monocarboxylic acids) with n investing one more carbon atom into extending a fatty acid, an organism can increase the variability of the fa Fibonacci series grows asymptotically exponentially, our results are in line with combinatorial complexity four calcns. to modified (e.g., hydroxylated) fatty acids. The presented enumeration method may be of interest for evolution (including prebiotic evolution). Indexing	an kommt direkt zum Treffer htwortsatz/Substanz/Reaktion), r mit dem Link verknüpft ist.
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nue.	By Chen, Yonglin From Faming Zhuanli	Shenqing (2013), CN 103054772 A 20130424, Language: Chine	ese, Database: CAPLUS
Include: Task History Tags Comments	The invention discloses wt. part: aloin: 3~5, almo bis(2-ethylhexyl) phthala raw materials except for with prior art, the inventi and gloss; (2) wide appl ~0 Citings	a novel hair oil and its manuf. method. The invention is composed oil: 10~20, Flos Osmanthi Fragrantis essence: 0.3~0.5, land te: 1~3, Span -60: 3~5, Pr hydroxybenzoate: 2~5, mink oil: 10~ vaseline and essence, stirring, adding vaseline, mixing, adding on has the following beneficial effects: (1) good effect of improvi ication range, no deterioration in the course of product storage.	ed of following componer blin: 8~16, petrolatum: 20- 20, and is manufd. by mix essence, stirring. Compa ing hair lubricity, adhesior
Print Ca	Copyright © 2013 American C	hemical Society (ACS). All Rights Reserved.	
	2. Cosmetic lotion conta	ining mink oil	

By Wang, Yan

From Faming Zhuanli Shenqing (2013), CN 103040653 A 20130417, Language: Chinese, Database: CAPLUS

The title skin care soln. is composed of glyceryl monostearate 20-40, stearic acid 6-12, octadecanol 10-20, mink oil 5-10, water-sol. lanolin 4-8, glycerol 20-30, menthol 10-20, iso-Pr myristate 30-50, essence 0.2-0.4 and deionized water 300-500 wt. parts. The skin care soln. is prepd. by (1) mixing stearic acid, glyceryl monostearate, water-sol. lanolin, iso-Pr myristate and glycerol, stirring at 60-80°C, (2) mixing other materials except for essence, stirring at 50-70°C, (3) adding the mixt. of step (1) into the mixt. of step (2), stirring, emulsifying, (4) cooling to room temp., adding the essence and stirring. The skin care soln. can make skin telangiectasia, promote blood circulation, improve skin nutrition state, moisturize skin and treat acne and other skin diseases.

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10. Final amended report on the safety assessment of mink oil

By: Andersen, F. Alan

Source: International Journal of Toxicology, Volume: 24, Issue: Suppl. 3, Pages: 57-64, Journal; General Review, 2005, CODEN: IJTOFN, ISSN: 1091-5818, DOI: 10.1080/10915810500257154

Company/Organization: USA

Accession Number: 2005:1252722, CAN 144:494776, CAPLUS

Publisher: Taylor & Francis, Inc.

Language: English

Abstract

A review. Mink Oil, obtained from the fatty tissues of minks, is a mixt. of the natural glycerides of 14 to 20 carbon chain fatty acids. There are 100 current reported uses as a hair-conditioning agent, an occlusive skin-conditioning agent, and as a surfactant; up to a max. concn. of 3%. Mink Oil is manufd. by harvesting animal hides and scraping the fat layer from the hide. It is rendered and refined using high temp. processes (230°F to 240°F) and sapon. to reduce free fatty acids. Analyses demonstrate that Mink Oil can be substantially free of impurities, including pesticides. Mink Oil does not absorb significant UVA or UVB radiation. In a clin. test of skin penetration, 1 h after application, Mink Oil was abetected on the skin surface of all five panelists; it was detected within the stratum corneum in 2/5 panelists. Mink Oil has an oral LD₅₀ of >64.0 cc/kg in albino rats. No erythema or edema was noted after refined Mink Oil was applied for 24 h to intact and scarified area of albino rabbits. A 50% dilin, of a Mink Oil cream did not sensitize guinea pigs in a maximization test. Mink Oil was not an ocular irritant to albino rabbits. Clin. studies using single occlusive patches found no irritation with up to 2.8% Mink Oil, although transient mild to no irritation was noted in two exaggerated-use studies. Mink Oil is used in aerosols and sprays. Although there are no inhalation toxicity data available on Mink Oil, the available data on particle sizes of cosmetic aerosols and sprays indicates diams. more than an order of magnitude larger than the diam. of respirable particles. Most of the glycerides in Mink Oil are triglycerides (glyceryl triesters), the safety of which has been substantiated in previous safety assessments; e.g., dernal absorption is nil to slight; there is little or no acute, such ronic, or chronic oral toxicity; dermal application was not assocd. with significant irritation or sensitization; ocular exposures were, at most, mildly irritating; most of the genotoxicity test systems are neg.; u

Indexing

Essential Oils and Cosmetics (Section 62-0)

Supplementary Terms

review mink oil safety cosmetic hair

Citations

1)Bio-Toxicology Laboratories Inc; Unpublished data submitted by CTFA on August 5, 1994 1974 2)Bower, D; Minutes of the September 9, 1999 meeting of the CIR Expert Panel 1999 3)Complete Analysis Laboratories Inc; Unpublished data submitted by CTFA. September 14, 2001 1996

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The invention provides a metrico of treating an autoimmune disorder, the metrico comprising administering to a subject in need thereor, a therapetuccity effective and to a composition $[R^1, R^2 = H, NH2, C1-6$ alkylamine, CO2H etc.; m = 1-3, n = 1-4], and salts and isomers thereof. The compds. of the invention include e.g. **cinnabarinic acid**. Immune disorder is an autoimmune disorder selected from the group consisting of multiple sclerosis, myasthenia gravis, Guillan-Barre syndrome (antiphospholipid syndrome), systemic lupus erythematosus, Behcet's syndrome, Sjogren's syndrome, rheumatoid arthritis, Hashimoto's disease/hypothyroiditis, primary biliary cirrhosis, mixed connective tissue disease, chronic active hepatitis, Graves' disease/hyperthyroiditis, scleroderma, chronic idiopathic thrombocytopenic purpura, diabetic neuropathy and septic shock.



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Author Name Company Name Document Identifier Journal Patent Tags SUBSTANCES Chemical Structure Markush Molecular Formula Property Substance Identifier REACTIONS Reaction Structure	Click a tag to retrieve references associated with that tag. A autorensuche scriba 17 september 2009 C cholesterol regulation as entered M modeling of host-pathogen-interaction T testmethode für mikroorganismen W westerhoff 2009 1987	Author Name Esteve Romero Josep 14 Thevis Mario 14 Thornas Andreas 14 Annemans Lieven 13 Kitano Hiroaki 13 Shen Dinggang 11 Ker Ming Dau 10 Niessen Wiro J 10 Collins D Louis 9 Comaniciu Dorin 9 Show More	 Development of structure-activity relationship for Bruck, arggi zhen, Nei Yuan, Jabe kas Faha, Obert Kas, Ta Bren Naroscele (2013), \$(21), \$641-8651. Language Erdenk. Nanomaterial structure-activity relobanchips (cano SA organizing mag clustering. The NP cellular toxoty do (RWV 2647.) cell, over a concr. range of 0.39-100 m based on an initial pool of thirty NP descriptors. The that are consistent with suggested toxotym mechanism machine (SWM) model and of validated robustnesse, confidence level of 87%. Given the potential role of enabled the construction of decision boundaries with and inter-abboratory proporticability 0.024 with Sy Sternitz, Dirk Mele, Nakar, Pek, Chrather Ipentz, Meira SB Prom Oberson-Bological Thereson, Alexid of Phint I. Language Exposure of the respiratory tract to arborne particle knowledge about the toxo properties and the underfly not the market until 2018 (FEACI). As toxocol. In with the reservice (ALI). Cell vability (WST-1 assay) and air-Reinterface (ALI). Cell vability (WST-1 assay) are producibility. Our results show the general applical principles on test validity underlining its robustness Special attention must be paid to the pure air control planned to improve the inter-leb, reproducibility, Our results with the special attention must be paid to the pure air control planned to improve the inter-leb. reproducibility, to con- planned to improve the inter-leb. reproducibility. 	metal on the paraconstructive. O cursues of Crow Sources in Chang, boom private, Arvec Lotten, table Database: CAVUS RAS) for metal oxide nanoparticles (IIPS) toxicity were investi- tatase included toxicity profiles consisting of seven different on the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava of the Cava in the Cava of the Cava of the Cava of the Cava of the Cava is and stability. Intra- and inter-lab. reproductive of the Cava of the	spated using metrics based on dose-response anal. and consensus self- tassays for human bronchial epithelia (BEAS-28) and murine myeloid in treal adde HPV. Various nano-SAR building models were evaluated, with the hydrabon enthalpy) were identified as sutable HP descriptors and in mano-SAR with the above two descriptors, built with usigont vector cability domain for the present data was established with a reasonable il impact of HNs, the class probabilities provided by the SVM nano-SAR evels of false neg. relative to false pos. predictions. of line dusts and nanoparticles with special focus on the intra- nn, Host! Viopi, Richard: Hoffmarn, Sebastan: et al d as a serious health heard. For a wide range of substances basic Legisletion demods the toxicol. Characterization of al chems, plece distinct limitations (e.g. inter-species differences) and legisletion claims activited to meet these requirements. In this paper we characterize a two exposure situation for the assessment of acute purionary toxicity of norms. <i>d'aritorna</i> methol dust (snon- and microscale particles) at the ECVAM (Lorgane) Center for the Validation of Alternative Hehndag e considered as sufficient i predefined quality criteria are respected. pretation of the results. Our results are encouraging and future work is nodel.

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	Dokumenttyp:	Journal Article				
	Author:	Gueguen, L. 🔍				
	Title:	Milk calcium: functions, benefits, requirements and bioavailability Le calcium du lait: fonctions, interets, besoins, biodisponibilite				
	Year:	2005				
	Journal:	Cahiers de Nutrition et de Dietetique 40				
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overweight and obesity. The recommended calcium intake in France varied from 800 to 1200 mg/day based on age and physiological status. This recommendation is justified by the net requirements for

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Andreas: Labade, Sharade Sharah Lin, Clara Jeou Jen: Lucas, Hatthew C./ Moore, Any Garakine: Pape, Eva: Talanas, F.

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Einzelansicht der Substanz (1)



1H-benzo[c]pyran-7-yl)carbonyl]-3-phenylalanine

3R.14S-Ochratoxin A
Einzelansicht der Substanz (2) - Eigenschaften



Bioactivity Indicators und Target Indicators

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Substance Identifier "valproic acid "	> substances (1) > 99-66-1	L		
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C ₈ H ₁₆ O ₂ Pentanoic acid, 2-propyl-				
Molecular Weight 144.21		ſ	BIOACTIVITY INDICATORS	
pKa (Predicted)		.	Indicators Anti-infective agents (all) >> Antibiotics Anti-infective agents (all) >> Antibiotics	References 77 57
Value: 4.82±0.20 Condition:	• EXPERIMENTAL SPECTRA		Anti-infective agents (al) > > Anti-infermatory agents Anti-inferminary agents (al) > Anti-infermatory agents	63 119
Melting Point (Experiment Value: 25 °C	PREDICTED PROPERTIES		Ant-Internative agents (all) > indiservoiral ant-Internative orugs Anttumor agents (all) > Anttangiogents Anttumor agents (all) > Anttangiogents Anttumor agents Chevic (all) > Anttumor agents	54 803
Boiling Point (Experiment	• PREDICTED SPECTRA		Cytoprotective agents (all) > Uvoprotective agents Cytoprotective agents (all) > Neuroprotective agents Enzyme inhibitors (all) > Historie deacetylase inhibitors	284
Value: 221-222 °C Condition	• REGULATORY INFORMATION		Ion channel bockers (all > Calcum channel bockers Nervous system agents (all > > > Analgesics Nervous system agents (all > > Anti-Albeimer agents Nervous system agents (all > > Anti-Albeimer agents	57 113 61 2087
Value: 0.904 g/cm3 Condition	• BIOACTIVITY INDICATORS		Nervous system agents (all) > > Anticonvulsants Nervous system agents (all) > > Anticonvulsants Nervous system agents (all) > > > Antidepressants	2007 2087 363
Other Names Valeric acid, 2-propyl- (6CI,7C	• TARGET INDICATORS	-	TARGET INDICATORS Indicators	References
2,2-Di- <i>n</i> -propylacetic acid 2-Propylpentanoic acid	► CAS REFERENCE ROLES		Apoptosis-regulating proteins (all) > Bax proteins Apoptosis-regulating proteins (all) > Bcl-2 proteins Apoptosis-regulating proteins (all) > Bcl-x proteins	37 82 17
4-Heptanecarboxylic acid	ADDITIONAL DETAILS		Calcium-binding proteins (all) > Osteocalcins Caspase recruitment domain-containing proteins (all) > > Caspase-9 Cell cycle regulatory proteins (all) > > Cyclin-dependent kinase 4	13 27 10
View more			Cell cycle regulatory proteins (all) > Cyclin-dependent kinase inhibitor proteins Cell cycle regulatory proteins (all) > > Cyclins Cytokines (all) > Cytokines	81 51 21
			Cvtokines (all) > > Interferons	26

Cytokines (all) > > > Interleukin 1β

Cytokines (all) > > > Interleukin 1β

Cytokines (all) > > Interleukin 6

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Dofine by:	0 of 642 References Selected	┥ 🖣 Page:							
 Research Topic Author Company Name Document Type 	 Method for preparing and purifying ochratoxin A and ochratoxin B Quick View Other Sources By Wu, Aibo; Zhao, Zhiyong; Song, Suquan; Wang, Jianhua; Liu, Na; Nie, Dongxia; Yang, Xianli; Lin, S From Faming Zhuanli Shenqing (2014), CN 104178535 A 20141203. Language: Chinese, Database 	Shanhai e: CAPLUS							
 Publication Year Language 	 Comparison of five different C18 HPLC analytical columns for the analysis of ochrat Quick View Other Sources 	toxin A in different mat							
Database	By Sultan, Y.; Magan, N.; Medina, A. From Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences (2014), 971, 89-93. Language: English, Database: CAPLUS								
Aspergillus Examples: The effect of antibiotic residues	 Improved method for the simultaneous determination of aflatoxins, ochratoxin A a derived products by liquid chromatography-tandem mass spectrometry after multi-to Q Quick View Other Sources By Lattanzio, Veronica Maria Teresa; Ciasca, Biancamaria; Powers, Stephen; Visconti, Angelo 	nd Fusarium toxins in co xin immunoaffinity clea							
Photocyanation of aromatic compounds	 From Journal of Chromatography A (2014), 1354, 139-143. Language: English, Database: CAPLUS 4. Evaluation by means of HPLC-MS of aflatoxins and OTA production by 20 strains of isolated from compost 	Aspergillus and Penicill							
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CAS Registry Numbe	er 303-47-9 62 ❥	 All substances Selected substances 	3
C ₂₀ H ₁₈ Cl N O ₆ L-Phenylalanine, <i>N</i> - oxo-1 <i>H</i> -2-benzopyr	[[[3 <i>R</i>]-5-chloro-3,4-dihydro-8-hydroxy-3-methyl-1- an-7-yl]carbonyl]-	Limit results by reaction	on role:
Molecular Weight 403.81 pKa (Predicted) Value: 3.29±0.10	Condition: Most Acidic Term: 25 °C	Product Reactant	
Melting Point (Exp Value: 169 °C	perimental) Rotation (-),,Absolute stereochemistry.	 Reagent Reactant or reagent 	
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Analyze Refine	Group by: No Grouping 👻 Sort by: Accession Number 👻 🦊	Display Options	
Analyze by: 📀	0 of 22 Reactions Selected		_
Catalyst 👻	1. View Reaction Detail 🕶 Link		
DMF 5	5 Steps Hover over any structure for more options.		
KOH 1	CH 0.00		
Show More		+	
	~ 0 [Step 2.1] ~132 ♪ ~100 ♪	~144 🔊	
	[Step 5.2] ~62	~2	

Alle Schritte einer Reaktion auf einen Blick

Anklicken: View Reaction Detail

F

REACTION DETAIL	Get Reference Detail	Get Full Text	Get Similar Reactions		Send to SciPlanner
		-		Previous Next	
1. Single Step <i>Hover over</i> но-сн ₂ -сн ₂ -т	any structure for more t H₃c−	<i>е options.</i> сн ₂ — о— сн ₂ ў	$-CH_3 \longrightarrow H_2C = CH_2$		SOURCE Process for preparing alkenes from oxygenates with supported heteropoly acid catalysts Q Partington, Stephen Roy Assignee BP P.L.C., UK 2011
Stages 1.1 R:H2O, C:12027-38-2 Experimental Procedur	2, 250°C, 30 bar e		Notes thermal, microreactor used, high pressure, flow system, gas phase, other products also detected, solid-supported catalyst, silicotungstic acid on silica support, Reactants: 2, Reagents: 1, Catalysts: 1, Steps: 1, Stages: 1 Transformation: Uncategorized	Yield	PATENT INFORMATION Sep 1, 2011 WO 2011104494 A1 NUMBER OF STEPS 1
L				Previous Next	

Einzelne Reaktionsschritte sind sichtbar.

Ausgangsstoffe und Produkte für Substanzinformationen sind anklickbar.

Interaktive Anzeigen bei Reaktionen (1)

Single Step Hover over any structure for more options.

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Interaktive Anzeigen bei Reaktionen (2)

Single Step Hover over any structure for more options.



Sortiermöglichkeiten bei den Reaktionstreffern



Y = O, S, NR'

Anzeige ausführlicher Synthesevorschriften schon im SciFinder



"Experimental Procedure" wird nach Anklicken ausgeklappt.

Führen Sie eine Analyse nach "Experimental Procedure" durch und wählen dann, die Antworten aus, die diese Angaben enthalten.



Experimental Procedure

General/Typical Procedure: Representative procedure for oxidative coupling of secondary anilines (Scheme 4): To a 50 mL single-necked flask equipped with a stir bar were added bis(4-bromophenyl)amine (4f) (2.616 g, 8.0 mmol), CuBr (0.0574 g, 0.40 mmol) and CH₃CN (16 mL). After the mixture was stirred at rt for 3 min, di-*tert*-butyldiazridinone (1) (1.498 g, 8.8 mmol) was added in one portion. The reaction mixture was vigorously stirred at rt for 2 h, concentrated and purified by flash chromatography (silica gel, hexanes:dichloromethane = 4:1) to give hydrazine 5f Scheme 4, 5f 1,1,2,2-Tetrakis(4-bromophenyl)hydrazine Scheme 4, 5e 1,2-Bis(4-bromophenyl)-1,2-diphenylhydrazine White solid; yield 71%. mp 86-88 °C; IR (film) 1584, 1487 cm⁻¹; ¹H NMR (300 MHz, CDCl₃) δ 7.39-7.07 (m, 16H), 7.05-6.86 (m, 2H); ¹³C NMR (75 MHz, CDCl₃) δ 142.8, 142.6, 132.3, 129.5, 123.1, 119.6, 118.5, 114.4; Anal. Calcd for C_{24H18}Br₂N₂: C, 58.33; H, 3.67; N, 5.67. Found: C, 58.11; H, 3.89; N, 5.62

Ansichtmöglichkeit "Experimental Procedure" auch über die Sortier- bzw. Gruppierungsfunktion

Group by: No Grouping 👻 Sort by: Experimental Procedure 👻 🛖	✓ Overview
	Steps/Stages
	1.1 R:BuLi, R: APr ₂ NH, S:THF, S:Me(CH ₂), 1.2 S:THF, -78°C; 30 min, -78°C
Group by: Document 🚽 Sort by: Experimental Procedure 🚽 👚	1.4 R:AcOH
	2.1 R:SO2Cl2, S:CH2Cl2, 18 h, rt
	2.2 R:LiOH, S:H ₂ O, S:EtOH, 1 h, reflux;
	2.3 R:HCl, S:H ₂ O, 1 h, rt 3.1 R:Cl(O=)CC(=O)Cl, C:DMF, S:CH ₂ Cl ₂ 3.2 R:Et ₃ N, S:CH ₂ Cl ₂ , S:DMF, rt; 15 min,
 Experimental Procedure 	-3000 ₂ H, 5.0H ₂ O ₂ , H, TH, H
Sequence 1	rimental Procedure
SYNTHESIS Step 1	
tert-Butyl L-Phenylalaninate (7) Concd $HClO_4$ (70%; 1.5 mL, 2.5 g, 17.4 mmol) added to a suspension of L-phenylalanine (1.8 g, 10.9 mmol) in <i>t</i> -BuOAc (27.0 mL, 2 mmol) under N ₂ at 0 °C. After stirring of the mixture at 25 °C for 12 h, H ₂ O (55 mL) 1 N HCl (30 mL) were added. The mixture was basified to pH 9 by the addition of 1 soln, and then extracted with CH_2Cl_2 (3 × 25 mL). The combined organic layers were (Na SO). After filtration, the solvent was removed by rotary evaporation, and the c	was slowly 23.3 g, 200 followed by 0% aq K ₂ CO ₃ e dried
✓ Experimental Procedure	
Step 1 Preparation of 5-chloro-8-hydroxy-3-methyl-1-oxoisochroman-7-carboxylic acid 7 called (0.69 mL, 8.6 mmol, 5 eq) was added to a stirred solution of 6 (429 mg, 1.71 mmol, dichloromethane (8.5 mL) under argon. The resulting mixture was stirred for 18 h at then concentrated under reduced pressure to give ethyl 5-chloro-8-hydroxy-3-methy 7-carboxylate as an orange sticky oil (490mg), which was suspended in ethanol (12 m was added and the mixture was allowed to reflux for 1 h. At this point, both ester and	OTa Sulfuryl chloride 1 eq) in anhydrous room temperature and I-1-oxoisochroman- nL). 4 M LiOH _{aq} (4.3 mL) ad lactone were

Suche nach chemischen Substanzen mit einer Strukturrecherche

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Java-basierter Struktureditor für Struktur- und Reaktionssuchen

- Voraussetzung: Java Runtime Environment (JRE) und das zugehörige Java Plug-in, um JRE mit dem jeweiligen Browser zu verbinden
- http://www.java.com/de/downlo ad/windows_xpi.jsp?locale=de



- für 64-bit-Browser ist die Java-64-bit-Version nötig
- Windows: Java 1.6.0_35 oder höher, 1.7.0_65 oder höher
- <u>Einfacher</u>: Verwenden des Non-Java-Struktureditors

Generieren einer Strukturformel



Hilfen beim Zeichnen von Strukturen (1)



Hilfen beim Zeichnen von Strukturen (2)



Bindungsauswahl

Stereobindungen

Zeichenstift

Atome auswählen

Variable Atome

Structure Repeating Unit

Zeichnet Ketten

Verschiebt Atome

Verhindert Ringbildung

Dreht die Struktur

Positive Ladung

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Suche nach der exakten Struktur

CAS Solutions - SCIFI	NDER'			
Explore 🔻	Saved Searches ▼	SciPlanner		
Chemical Structure s	ubstructure with limiters	CES: CHEMICAL ST	RUCTURE 🕑	
Research Topic Author Name Company Name Document Identif Journal Patent	ier	Structure Editor: Java	Non-Java	Search Type: Exact Structure Substructure Substructure
Tags SUBSTANCES Chemical Structu Markush Molecular Formul Property	re l a			Show precision analysis
Property Substance Identif	ìer	Search		

Präzisionsanalyse sollte bei der Suche nach Stereo-Verbindungen, Komplexen bzw. Tautomeren aktiviert sein.

Begrenzung der Suche auf Stoffklassen (Advanced Search)



Substruktursuche – Suche nach Substitutionen



Substruktursuche ohne Bildung neuer Ringe



Strukturähnlichkeitssuche



Reaktionssuche über die Struktur



Hilfen beim Zeichnen von Reaktionen

Die Strukturen für Reaktionssuche-Anfragen werden mit den schon beschriebenen Hilfsmitteln generiert. Zusätzlich stehen diese Tools zur Verfügung:



Reaction Arrow - Zum **automatischen Erteilen der Rollen** in einer Reaktion klicken Sie auf den Reaktionspfeil und positionieren Sie ihn auf dem Zeichenbrett rechts neben den Ausgangsstoff, klicken und ziehen Sie bei gedrückter linker Maustaste bis vor das Reaktionsprodukt. Die "Etiketten" Reactant or Reagent/ Material/ Product erscheinen.



Reaction Role - Klicken Sie diesen Button an und weisen Sie damit den gezeichneten Strukturen ihre Rolle bei der Reaktion zu.

Tippen Sie eine Teilstruktur an, im sich öffnenden Fenster, wählen Sie die entsprechende Rolle aus und gehen auf **"OK**". Die (Teil)struktur hat nun ein "Etikett".





Funktional Groups (Geht im Moment bei der Non-Java-Version noch nicht!)

Über diesen Button kann man ohne Zeichnen von Strukturen Reaktionen von Substanzklassen suchen.



Reaction Mapping - Nachdem Sie Ausgangsstoff und Produkt gezeichnet und mit ihrer "Rolle" in der Reaktion versehen haben, können Sie mit diesem Button zusammengehörende Atompaare aus Edukt und Produkt definieren (Atom 1 im Edukt entspricht Atom 1 im Produkt). Klicken Sie dazu nacheinander die entsprechenden Atome an. Beide Atome erhalten die selbe Nummer.





Reaction Site Marking - Markieren Sie damit eine oder mehrere Bindungen im Ausgangsstoff, die bei der Reaktion geändert/gebrochen werden bzw. Bindungen im Produkt, die sich ändern/entstehen (eine Doppellinie kennzeichnet nun diese Bindungen).

Beispiel einer Reaktionssuche



Ausweg: Suche mit Funktionellen Gruppen





Zu viele Treffer? → Refine by Reaction Structure

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Einschränken über Ausbeute, Ein-/Mehrstufenreaktion, Reaktionsklassifizierung



Exportieren von Reaktionen



Speichern der zu den Reaktionen gehörenden Quellen mit der entsprechenden Zusammenfassung

CAS Solutions -		10							Preference	s SciFinde	ler Help ▼ Sign Out Welcome Ina Weiss			
Explore 🔻	Saved S	earches 🔻	SciPlanner						Sa	ive	Print Export			
Opened saved answe	er set "Autor	avod Poforonco	Sot" (48) > get	t substances (7	(4) > get reactions (30) > get referen	ces (8)							
REACTIONS 😨		Get Reference	es 🎘 Tools 🕇	•							Send to SciPlanner			
Analyze Refine			Sort	t by: Accession N	Number 🔻 🦊				Answer	s per Page [[50] Display: 🕥 🙆			
Analyze by: 2 Catalyst	•	□ ▼ 0 c	of 30 Reaction Selection Relation	cted	Similar Reactions							-		
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		1.1 R	R:Me4-piperidoxyl,	C:80498-15-	Daniali Promo		From Pra	y Whittall, John; Sutto actical Methods for Bio	on, Peter ocatalysis and Biotransfor	mations (2	2010), 240-244. Lar	nguage: English, Database: CAPLUS		~1
Show More						2	The in m	ildly acidic water	e for the selective or solns.; therefore, th	idn. of n is metho	natural glycosides i od is complementa	is mild, convenient, and easily reproducible. Th ary to other chem. approaches for the in situ	ne bio-transformations are p regeneration of the oxidized	erformed J form of
					Haltrich Dietmar	2	TEM	PO, such as sodiur	n hypochlorite, that r	equire al	Ik. pH.			
					Marzorati Mattia	2	2. Facile activity	Synthesis of 6-h	etaryl[1,2,4]triazol	o[3,4-b]	[1,3,4]thiadiazol	es and 7-hetaryl[1,3,4]thiadiazolo[2,3-c][1,2	.,4]triazines with fungicidal	1 🎝
		2. Viev	w Reaction Deta	ail 🕶 Link 🖌	Sagui Francesca	2	By El-Tel From Ru	bani, E. M.; Swellem, Issian Journal of Orga	R. H.; Nawwar, G. A. M. nic Chemistry (2007), 43(12), 1815	-1820. Language: B	English, Database: CAPLUS		~1
		Single	Step Hover over a	any structure	Araya Eyleen	1	Conc triaz	lensation of 4-ar olo[3,4-b][1,3,4]tł	nino-4H-1,2,4-triazol niadiazol-6-ylacetate	e-3-thiol and Et	and 4-amino-6-r t 3-methyl-4-oxo	methyl-3-mercapto-[1,2,4]triazin-5(4H)-one wit -4H-[1,3,4]thiadiazolo[2,3-c][1,2,4]triazin-7-γla	th Et cyanoacetate gave E cetate, resp. Reactions	t [1,2,4] of the
					Baratto Lara	1	cond treat	ensation products ment with hydr	with 1,3-diphenylpr azine hydrate) gav	op-2-en- e the	1-one, arom. ald corresponding 6-	ehydes, and carbon disulfide or N,N-dimethylf hetaryl-[1,2,4]triazolo[3,4-b][1,3,4]thiadiazoles	ormamide di-Me acetal (foll and 7-hetaryl-3-methyl-4	lowed by H-[1,3,4]
			NH 2		Bliard Christophe	1	thiad	iazolo[2,3-c][1,2,4	4]triazin-4-ones. Pre	liminary	tests revealed fun	gicidal activity of the pyrazole-substituted derivs	l.	
		s.		.0	Candido Andrea	1	3. A pro By Tripa From Inc	thi, Arun Kumar; Praja dian (2004), IN 19282	duction of (6-O-β-D apathi, Veena; Kumar, Su 5 A1 20040522. Langu	- glucopy shil; Tripat iage: Engli	yranosyl-β-D-glud thi, Vinayak; Sashidha ish, Database: CAPLU	copyranosyl)oxybenzeneethylamine Q Quick ra, Koneni Venkata S	View 🗹 Other Sources	-€
					Show More		A pr walli solve shov	ocess for the proc chiana with alc. a ents, dissolving the vn to be an insect	dn. of (6-Ο-β-D-glucα at 20-40°, evapg. the a amygdalin obtained antifeedant.	pyranos solvent in a lov	syl-β-D-glucopyrand t to obtain a resid wer aliph. alc., hyd	osyl)oxybenzeneethylamine (I) is obtained by e due, purifying the amygdalin obtained by colur drogenating in the presence of a catalyst selec	xtg, dried pulverized seeds nn chromatog, and eluting ted from 10% Pd/C and PtO	of Taxus ^{~0} 🗐 with org. 12. I was

Wechsel zwischen Struktur-, Reaktions- und Markush-Editor

Structure Editor		
Drawing Editor: Shorted Keys		
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	0	Drawing Editor:
Draw or change atoms or bonds.	Shortcut Keys	Structure
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		Get Markush patents that
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		 Variable only at The specified positions
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rechten Ecke kann die	ale 100 -	OK
		Abbrechen
Jroise des Zeichentensters		
/erändert werden		

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Suche nach allen Herstellungsvorschriften einer Substanz



Vollständige Suche: 1+2

Zur Ergänzung auch in Reaxys und Science of Synthesis suchen!

Suche nach allen Reaktionen einer Substanz



3) Reaktionssuche über "Reactions" → Reaction Structure (Strukturrecherche Edukt→Produkt)

Vollständige Suche: 1+2+3 Zur Ergänzung auch in Reaxys und Science of Synthesis suchen!

Struktursuche - ohne Zeichnen der Verbindung!



Nach der Reaktionssuche – Weiter ohne Zeichnen der Verbindung!

1. View Reaction Detail @ Link L Similar Reactions



Single Step Hover over any structure for more options.

- 1. Klicken Sie nach einer Reaktionssuche auf die Doppelpfeile im Bild der Verbindung, für die nähere Informationen gebraucht werden:
 - Herstellungen, Reaktionen usw.
 - Textstellen zu allen Aspekten (References)
 - Eigenschaften (Substance Details)
 - Zulassungsinformationen (Regulatory Information)
- 2. Für eine Substruktursuche:

Wählen Sie "Explore by Structure" und dann "Chemical Structure" bzw. "Reactions" aus, die Struktur erscheint im Suchfeld. Einzelheiten der Struktur können geändert werden oder mit der Substruktursuche/Reaktionssuche kann sofort begonnen werden.

Hilfe bei Struktur- und Reaktionssuchen

http://www.cas.org/training/scifinder

Substance Searching

- Introduction to Substance Searching (tutorial)*
- Introducción a la búsqueda de Sustancias (tutorial)*
- How to Create a Substance Answer Set Search by chemical structure, molecular formula, and substance identifier. (PDF)*
- How to Work with a Substance Answer Set Analyze and refine search results. (PDF)*
- Introduction to the SciFinder Drawing Editor Use templates and shortcuts. Enter structures with CAS Registry Numbers[®]. (tutorial)*
- Customize the SciFinder Drawing Editor Set drawing preferences, customize common atoms palette, and create templates. (tutorial)
- Which Drawing Tools Control Variability? (~10 minutes)
- Which Type of Structure Search Should you Choose? (~10 minutes)
- Use SciFinder to Check for Substance Novelty and Properties (~10 minutes)
- What is a Markush Search? Why is it Important? (~10 minutes)
- How to Find Commercial Sources (PDF) React

Reaction Searching

- Außerdem: Dreiminütige "Need-to-Know Videos"
- Structure Searching
- Reaction Searching
- Reference Searching
- General Topics

- Introduction to Reaction Searching (tutorial)*
- Introducción a la búsqueda de Reacciones (tutorial)*
- How to Create a Reaction Answer Set Draw and search reactions. Get Reactions tool. (PDF)*
- How to Work with a Reaction Answer Set Analyze and Refine search results. Group by Document or Transformation. (PDF)*
- Draw Reactions Apply variables and shortcuts. Assign reaction sites and map atoms. (tutorial)*

SciFinder Training Materials

SciFinder[®]

- Plan a Synthesis Project Send data to SciPlanner[™] and merge reactions into a synthesis plan. (tutorial)
- How Can Drawing Tools Effect Reaction Search Results? (~11 minutes)
- Find Experimental Procedures to Synthesize Substances (~10 minutes)
- Organize Your Data. Plan and Share a Project. (~6 minutes)
- Virtual Class Resources
Weitere Hilfen - SciFinder Virtual Classes

Substance Searching: Search for Substance Data

- Part 1 (Search by Substance Identifier. Find property data and commercial suppliers.)
- Part 2 (Conduct an Exact search. Refine. Find preparation information. Create an alert.)
- Part 3 (Conduct a Substructure search. Analyze and Refine search results.)
- Workbook for Parts 1-3 (PDF)
- Exercises for Parts 1-3 (PDF)
- Download structure file for exercises
- · Slides only (PDF)

http://www.cas.org/training/scifinder/ virtual-classes

Reaction Searching: Search For Reactions Using Substructures

- · Part 1 (Reaction substructure search. Group results.)
- Part 2 (Analyze and refine reaction answer sets. Get experimental procedures. Group by transformation type.)
- Part 3 (Use SciPlanner™. Find commercial sources for substances.)
- Workbook for Parts 1-3 (PDF)
- Exercises for Parts 1-3 (PDF)
- Download reaction file for exercises
- Download SciPlanner file for exercises
- Slides only (PDF)

Reference Searching: Search For References by Research Topic

- Part 1 (Formulate a query and remove duplicate answers. Use Refine to narrow an answer set.)
- Part 2 (Create a Keep Me Posted (KMP) alert. Sort by cited references. Analyze an answer set, and access full text.)
- Part 3 (Use Categorize. Export and save answer sets. Retrieve associated substances.)
- Workbook for Parts 1-3 (PDF)
- Exercises for Parts 1-3 (PDF)
- Slides only (PDF)

SciPlanner - neue Wege der Forschungsplanung

- SciPlanner interaktiver Arbeitsplatz, der es Nutzern ermöglicht, angepasste Reaktionswege zu entwickeln sowie SciFinder-Ergebnisse zu organisieren und zu verwalten
- Reaktionen, Experimentmethoden, Substanzen und Referenzen aus verschiedenen Dokumenten können integriert werden
- http://www.youtube.com/watch?v=FsOvKsALKb4&feature=related
- Senden von Daten zum SciPlanner: http://www.cas.org/etrain/scifinder/planner_intro.html
- Arbeiten mit den Objekten im "Workspace": http://www.cas.org/etrain/scifinder/planner_workspace.html
- Erstellung eines Syntheseplanes
 (Send data to SciPlanner[™] and merge reactions into a synthesis plan. tutorial)
 http://www.cas.org/etrain/scifinder/sciplanner.html





SciPlanner[™] ist eine Möglichkeit, um mit Ergebnissen aus SciFinder zu arbeiten.

SciPlanner (2)

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SciPlanner: Export

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Jeder Nutzer kann maximal **20 Pläne** mit bis zu 200 einzelnen Substanzen in SciPlanner speichern und insgesamt maximal 100 Einträge (combined references, Reaktionen oder Substanzen).

SciPlanner: Öffnen von gespeicherten Vorlagen



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SciPlanner @	
Workspace Edit View New Image: Second	Open
Open	SciPlanner_04_04_2011_Progesterone Delete
Save rmones for menopausal hormone	SciPlanner_04_12_2011_HRT_Progesteron Rename
Duplicate Lion on a theme Adriane and Bythrow Jenna	SciPlanner_04_12_2011_Test
Import eneral internal medicine, 22, 7,	
Export	
Print	
Close	





Patente im SciFinder

Patentrecherchen einschließlich (Markush-) Struktursuchen



- Patente im SciFinder/ Patentarten in der Chemie/ Informationen aus Patenten
- Patentrecherchearten/ Erfinderrecherche/Anmelder-, Inhaberrecherche
- Stand der Technik-Recherchemöglichkeiten (Bsp. Thalidomid-Derivate)
 - Suche nach Thalidomid-Abkömmlingen über "Research Topic "(Wortsuche)
 - Tipp: "Research Topic" mit RN- Nummer
 - Struktursuche ohne Zeichnen
 - Substanz"arten" in Patenten
 - Markush-Struktursuchen
- Patentangaben im Einzeltreffer/ Zugang zu den Patentvolltexten
- Patentstatistiken im SciFinder mit "Analysis"
- Zusammenfassung

Patente im SciFinder

- Mehr als 10 Mio. Patente von 63 Patentämtern, ab 1878
- Patente indexiert aus mehr als 35.000 Klassen der IPC (International Patent Classification) und 99 Klassen der U.S. National Patent Classification: alle Patente mit chemierelevantem Inhalt (Chemie, Biochemie, Pharmazie, Materialwissenschaften u.a.) ausgewählt
- Patente der neun wichtigsten Patentämter weltweit mit ihren bibliographischen Daten schon innerhalb von zwei Tagen aufgenommen



http://www.cas.org/content/references/patentcoverage



Patentarten in der Chemie

- Stoffpatente
- Verfahrenspatente
- Anwendungspatente
 - Algemeine Anwendungen
 - Diagnostika, Pharmazeutika
 Erste und zweite Indikation

Chemierelevante Patente nicht nur in Sektion C der IPC, sondern auch in Sektion A







Informationen aus Patenten

- Technisches Wissen: Gebiet der Erfindung mit bisherigem Stand der Technik, technisches Problem und seine Lösung durch die Erfindung, mindestens ein Ausführungsbeispiel, Vorteile der Erfindung, Darstellung der Patentansprüche
- Bibliographische Daten: Angaben zum Erfinder, Anmelder, Priorität, Patentklasse(n), Datum der Patentanmeldung/ Offenlegung/ Patenterteilung
- Rechtsstand (Zurücknahme, Erlöschen, Inhaberwechsel)



Patentrecherchearten im SciFinder

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Rechercheart	Ziel
Anmelderrecherche	Anmeldungen und Schutzrechte eines bestimmten Unternehmens oder einer Person
Stand der Technik	Überblick zu bestimmten wissenschaftlichen Gebieten oder Technologien
Neuigkeitsrecherche	Für eine konkrete Erfindungsidee wird die Chance einer erfolgreichen Patentanmeldung geprüft
Freedom to operate	Sicherstellung der freien Benutzbarkeit einer Technologie oder Substanz durch freien Stand der Technik
Verletzungsrecherche	Gibt es gültige Schutzrechte Dritter, die durch ein Produkt oder Verfahren verletzt werden können?
Einspruchsrecherche	Stand der Technik vor Priorität einer anzugreifenden Anmeldung
Marktrecherche	Überblick über ein spezifisches Marktsegment mittels der getätigten Patentanmeldungen

Erfinderrecherche

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CAS Solutions - SCIFINDER A CAS SOLUTION		
Explore Saved Searches	SciPlanner	
REFERENCES Research Topic Author Name Company Name	CES: PATENT Suche nach Erfindern - so findet man Mitbewerber und Konkurrenten.	
Document Identifier Journal Patent Tags	Examples: WO 2001011365 Assignee Name Examples: Cancer Research Technology Limited	
Chemical Structure Markush Molecular Formula	Inventor Last Name * First Middle Schubert Ulrich S	
Property Substance Iden Ifier	Publication Year Examples: 1995, 1995-1999, 1995-, -1995	
Hier kann der Such- zeitraum schon vorab auf bestimmte Jahrgänge	Ausschnitt aus der	
eingeschränkt werden.	Trefferliste 2. Method for generating photonically treated printed structures on surfaces, apparatus, and use th By Delaney, Joseph T.; Schubert, Ulrich S. From PCT Int. Appl. (2011), WO 2011006641 A1 20110120. Language: English, Database: CAPLUS	ereof Q 🗟 Full Te

Inhaber-/Anmelderrecherche

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CAS Solutions					Pre	f
Explore	✓ Saved Searches ▼	SciPlanner				
Patent "Schube REFERENCE Research To Author Nam Company Na	ert, Ulrich S" > references (18)	ES: PATENT 🛛	Suche nac Mitbewer geber	ch Firmen, ber, Konk	/Einrichtungen - s urrenten, Lizenzr	so findet man nehmer bzw. –
Document In Patent Tags SUBSTANCI Chemical St Markush Molecular F Property	ES ructure ormula	Examples: WO 200101 Assignee Name Jenapharm Examples: Cancer Res Inventor Last Name Publication Year	1365 earch Technology Limited e * First	Middle		
REACTIONS Hier zeitra auf b gänge werd	kann der Such- aum schon vora estimmte Jahr- e eingeschränkt en.	b Example 94. Mult By: Moore Assignee: The title sys and an estr ovarian cycl (II) 0.010, e 1.000. Patent In Patent No. DE 4313926	tiphase hormonal , Claudia; Oettel, Michael Jenapharm GmbH, Germa stem comprises combinal ogen prepn. to be applier e contg., in addn. to std. estradiol valerate (III) 1.0 formation Kind	system for contr ny ions of estrogens and a d in the 4th phase. Thu excipients, the followin 00; days 8-14, I 0.075, Date Nov 3, 1994	aception a gestagen to be administered during the s, film tablets were provided for admini g active agents (in mg): days 1-7, ethyr II 0.050, III 1.000; days 15-21, I 0.005, Application No. DE 1993-4313926	e 1st 3 phases of the ovarian cycle stration on the following days of the nylestradiol (I) 0.050, levonorgestrel II 0.075, III 1.000; days 22-28, III Date Apr 28, 1993
	Beispieltreffe	Priority Ap	plication	Apr 28, 1993		

Suche mit Company Name + Refine/Document Type/Patent

		_		REFEREN	CES 😨	
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Patent "Jenapharm" > references (413) > Mu	ultiphase hormonal system for ES: COMPANY NAME 🔮			 Comp Docur 	any Name nent Type	כ
Research Topic Author Name	Jenapharm	_		 Public Langu Datab 	ation Year Iage ase	ſ
Document Identifier Journal Patent	Examples: 3M DuPont			Documer	it Type(s) aphy	
Tags	Search			Book	al Trial nentary	
 Nutrient composition for women intending to become p No Inventor data available From Ger. Gebrauchsmusterschrift (2010), DE 202009016672 U1 2010050 	regnant, in pregnancy, and in lactation a	Quick View 🛛 🗹 Other Sou	rces 🚸 ~0 😭	Confe	rence tation	
A nutritional supplement in capsular form for use by wom vitamin B6, vitamin B12, niacin, vitamin D3, vitamin E; (b) the wt. of components being (by wt. of the total formulation	en comprises: (a) folic acid/folates, vitamin iodine, calcium, magnesium; and (c) docosa): (a) 2-10%; (b) 15-50%; and (c) 20-70%.	B1, vitamin B2, hexaenoic acid;		 Editor Histor Journ 	ial ical al	
2. Inorganic flow aid for feeds [Machine Translation]. Q Qu By Linde, Hellmut; Anger, Immo; Roessler, Norbert From Ger. Offen. (1992), DE 4105856 A1 19920827. Language: Germa	ick View 🖸 Other Sources n, Database: CAPLUS		~0 😭	Paten	t int	
3. Fourrages medicinals Quick View Other Sources By Kramer, Axel Dd; Wanffen, Wolfgang Dd; Ehlert, Dieter Dd; Kruligk, Fr From Rom. (1986), RO 88515 A2 19860130. Language: Romanian, Dat	ank Dd; Grubel, Gerhard Dd abase: CAPLUS		~0 ≪0	Revie	W	

Stand der Technik - Recherchemöglichkeiten



Beispiel: Thalidomidähnliche Substanzen und ihre Wirkungen/Anwendungen

Thalidomid = Wirkstoff des Schlaf- und Beruhigungsmittels, das unter dem Markennamen Contergan® verkauft wurde



Neue Indikationen für Thalidomid

Eigenschaften

Ę

- entzündungshemmend
- tumorhemmend
- vermindert Gefäßneubildung

• therapeutische Effekte bei verschiedenen Krankheiten

- Lepra u.a. Hauterkrankungen, multiple Myelome
- Autoimmunerkrankungen, Krebs, AIDS, Rheuma, MS
- großes Marktpotential
- Patentschutz für Thalidomid seit Jahren ausgelaufen

→ Suche nach Derivaten, Hoffnung: Ähnliche Strukturaufbau → ähnliche Wirkung

Einige Namen für Thalidomid

- 1H-Isoindole-1,3(2H)-dione, 2-(2,6dioxo 3-piperidinyl)-
- Phthalimide, N-(2,6-dioxo-3-piperidyl)-
- (±)-Thalidomide

Ę

- α-(N-Phthalimido)glutarimide
- α-N-Phthalylglutaramide
- α-Phthalimidoglutarimide
- 1,3-Dioxo-2-(2,6-dioxopiperidin-3-yl) isoindoline
- 3-Phthalimidoglutarimide
- N-Phthaloylglutamimide
- N-(2,6-Dioxo-3-piperidyl) phthalimid
- Thalidomide
- Thalomid

Mögliche Begriffe für Freitextsuche mit Research Topic

- Celgene
- Contergan
- Distaval
- Kevadon
- Myrin
- Neurosedyn
- Pantosediv
- Quetimid
- Sauramide
- Sedalis
- Sedoval
- Softenil
- Softenon
- Suaramide
- Talimol
- Talinol

Suche nach Thalidomid-Abkömmlingen über "Research Topic"

	05	SciF	Finder	N 0						
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Re	esearch T	Topic "th	alidomide analo	ogs (thalidomi	" with limiters ES: RESEARCH TOP	IC 😨				
	Researce Author I Compar	ch Topic Name ny Name ent Ident	ifier	[thalidomide analog	s (thalidomide deriv	atives, thalidor	nide compounds, subs		
	Journa	0 of 5	Research Top	ic Candidates	Selected					References
	Patent Tags		421 referen derivative	ices were fou s", "thalidoi	ind containing at lea mide compounds"	st one of the cond or "substituted	epts "thalido thalidomides	mide analogs", "thal s".	idomide	421
æ	SUBST		87 reference	es were foun	d containing the co	ncept "thalidomi d	le analogs".			87
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	Markus Molecu		171 referen 31 referenc	ices were fou es were foun	ind containing the c id containing the co	oncept " thaidom ncept "substitute	ide compour ed thalidomid	ids". les".		1/1 31
	Property Substar	y nce Ident	tifier		Publication Years	Examples: 1995, 199	5-1999, 1995-, -1	995		
4	REACTI Reaction	IONS n Structi	ure		Document Types	 Biography Book Clinical Trial Commentary 		Historical Journal Letter Patent		

Trefferliste bei Research Topic

Research Topic "thalidomide analogs (thalidomi" with limiters > references (419) > Preparation of pyridine compou						
REFERENCES 🛛	Get Substances ↓ Get Reactions Get Related Citations ✓ Model	Create Keep Me Posted Alert SciPla				
Analyze Refine Categorize	Sort by: Accession Number 👻 🦊	Display Ot				
Analyze by: 2 Author Name - Xi Ning 12	 0 of 419 References Selected 401. Use of neomycin for treating angiogenesis-related diseases Quick View © Other Sources By Hu, Guo-Fu; Vallee, Bert L. From PCT Int, Appl. (1999), WO 9958126 A1 19991118. Language: Engli 	, 18F-substituted deriv.				
Zeldis Jerome B 10 Curd John G 9	 402. Prevention of adhesions and excessive scar formation using angiogenesis inhibitor Quick View Other Sources By Brem, Harold; Ehrlich, Jason; Folkman, Judah 	vigenesis inhibitors 5-1D Thalidomide, analogs				
Fraley Mark E 9 Hartman George D 8	From PCT Int. Appl. (1999), WO 9909982 A1 19990304. Language: Engli					
Deng Yongqi 7 Kong Qingzhong 7	By Zimmer, Oswald; Winter, Werner; Wnendt, Stephan; Zwingenberger, Kai; From Eur. Pat. Appl. (1998), EP 856513 A2 19980805. Language: German, Database: CAPLUS					
Gegebenenfalls d Suchergebnis übe Categorize/Searce Substances/ Thalidomide, Mod weiter eingrenzer	as crimental compositions using thaidonide of other angiogenesis-inholtory com- categorize hed dified n. category Heading Category Heading Category Heading Category Biotechnology Synthetic chemistry Biology Category Biology Biology	st. Selected Terms Click 'x' to remove the category from 'Selected Terms' 94 All > Searched substances (1				

Tipp: Research Topic mit RN- Nummer



Struktursuche ohne Zeichnen



Ergebnis Substruktursuche (1)



Get Cancel

Ergebnis Substruktursuche (2)



Exkurs: Substanz"arten" in Patenten



Prophetische Substanzen im SciFinder

- Spezifische chemische Verbindungen (z.B. Reaktanten, isolierte Intermediate, Produkte), die in den Ausführungsbeispielen eines Patentes vorkommen, aber <u>nicht</u> auch <u>in den Ansprüchen</u>
- Werden nicht näher charakterisiert, sondern nur erwähnt
 - als beispielhaft genannte "prophetische Substanzen" → Verbindungen, die nicht mit angeführten Eigenschaften/Reaktionen "unterfüttert" werden (z.B. Schmelzpunkt, Ausbeute), sondern von denen nur ein eindeutiger chemischer Name oder die Struktur angegeben wird oder die in Tabellen angeführt werden
 - mit beispielhaft genannter "prophetischer Verwendung/Herstellung " → Neuartige, aber nicht weiter belegte, spekulative oder theoretisch mögliche Verwendung/Herstellung eines schon bekannten chemischen Stoffes
- Neu identifizierte prophetische Substanzen bekommen Chemical Abstracts Registry Nummern (CAS-RN), werden in REGISTRY aufgenommen und in SciFinder als Ergänzung der Standardindexierung bei Patenten hinzugefügt.
- Prophetische Substanzen werden in den Treffernachweisen bei der Indexierung mit "prophetic" gekennzeichnet



Preparation of 2-(2,6-dioxo-3-fluoropiperidin-3-yl)isoindolines for reducing inflammatory cytokine levels.

Prophetic

Beispiel prophetischer Substanzen in einem Patent

R [®] / ~N
R^{4a}
,CI

Table 3 Compound No MS data Prophetische Substanzen werden 444 bei Suchen mit Registry-Nummern (95%), I-1 446 oder über normale Struktursuchen (100%) automatisch gefunden. 478 Table 1 (100%)

					-		1-2	480
Compound	R ⁸	R ⁴ a	R ^{4b}	R ^{4c}	R ^{4d}		14	(70%), 482 (15%)
I-1	Cinnamyl	H	H	H	H			462
I-2	4-chlorocinnamyl	H	H	H	Н		1-3	(100%), 464 (95%)
I-3	4-fluorocinnamyl	H	Н	Н	H			
I-4	4-nitrocinnamyl	H	Η	H	H		I-4	489 (100%),
I-5	4-methoxycinnamyl	Н	Η	H	H			491 (70%)
I-6	4-methylcinnamyl	H	Н	H	Н	Verbindungen		147
I-7	4-trifluoromethylcinnamyl	H	Н	H	H	ohne charak-	I-5	474
I-8	4-cyanocinnamyl	H	Н	H	H	terisierende		476 (80%)
I-9	2,4-dichlorocinnamyl	H	Н	H	H	MS-Daten		512
I-10	2,4-difluorocinnamyl	H	Н	H	H	\rightarrow Prophetische	1.40	(95%), 514
I-11	cinnamyl	C1	Н	Н	Н	Substanzen	1-12	(100%),
I-12	4-chlorocinnamyl	C1	Н	Н	Н			(35%), 518 (5%)

Markush-Stukturen (1)

 Benannt nach Eugene A. Markush, in dessen Patent US1506316 zu Pyrazolon-Farbstoffen sie 1924 erstmals beschrieben wurden.

Patented Aug. 26, 1924.				1,506,316
UNIT	ED	STATES	PATENT	OFFICE.
EUGENE A. MAI	CAL C	OF JERSEY CITY, N. ORPORATION, A COR	EW JERSEY, ASSIGN RPORATION OF NEW	OR TO PHARMA-CHEMI- YORK.
	YRAZO	LONE DYE AND PRO	CESS OF MAKING TH	HE SAME.
No Drawing.	Ap	plication filed January	9, 1923. Serial No. 611.	637.

In den Ansprüchen wurde erstmals nicht nur jeweils eine einzelne chemische Verbindung genannt, sondern eine Auswahl aus verschiedenen Substanzen.

Claims:

1. The process for the manufacture of dyes which comprises coupling with a halogen-substituted pyrazolone, a diazotized upsulphonated material selected from the group consisting of aniline, homologues of 100 aniline and halogen substitution products of aniline.

2. The process for the manufacture of dyes which comprises coupling with a halogen-substituted pyrazolone, a diazotized unsulphonated material selected from the group consisting of aniline, homologues of aniline and halogen substitution products of aniline.



Markush-Stukturen (2)

- Strukturformeln mit variablen Symbolen (generisch)
- mit Platzhaltern f
 ür bestimmte Substituenten, z.B. R f
 ür organische Reste (R = Methyl, Isopropyl, Pentyl...) oder X f
 ür Halogene, Heteroatome (X=N,O,S, CI,Br...)



- eine Markush-Formel repräsentiert sehr viele potentielle chemische Substanzen
- dadurch können in einer Patentschrift eine große Zahl verschiedener, ähnlicher Verbindungen abgedeckt werden

Typisches Beispiel f ür Markush-Strukturen

I

What we claim is: 1. A quinazoline derivative of the formula I



wherein \mathbf{X}^1 is a direct link;

wherein Q¹ is a 5-membered heteroaryl moiety containing one heteroatom selected from oxygen and sulphur, which heterocyclic moiety is a single ring or is fused to a benzo ring, and Q¹ optionally bears up to 3 substituents selected from halogeno, hydroxy, amino, trifluoromethoxy, trifluoromethyl, cyano, nitro, carboxy, carbamoyl, (1-4C) alkoxycarbonyl, (1-4C)alkyl, (1-4C)alkoxy, (2-4C) alkenyloxy, (2-4C)alkynyloxy, (1-3C)alklenedioxy, (1-4C) alkylamino, di-[(1-4C)alkyl]amino, pyrrolidin-1-yl, piperidino, morpholino, piperazin-1-yl, 4-(1-4C) alkylpiperazin-1-yl, (2-4C)alkanoylamino, N-(1-4C) alkylcarbamoyl, N,N-di-[(1-4C)alkyl]carbamoyl, amino-(1-4C)alkyl, (1-4C)alkylamino-(1-4C)alkyl, di-[(1-4C) alkyl]amino-(1-4C)alkyl, pyrrolidin-1-yl-(1-4C)alkyl, piperidino-(1-4C)alkyl, morpholino-(1-4C)alkyl, piperazin-1-yl-(1-4C)alkyl, 4-(1-4C)alkylpiperazin-1-yl-(1-4C)alkyl, halogeno-(2-4C)alkoxy, hydroxy-(2-4C) alkoxy, (1-4C)alkoxy-(2-4C)alkoxy, amino-(2-4C)alkoxy, (1-4C)alkylamino-(2-4C)alkoxy, di-[(1-4C)alkyl]amino-(2-4C)alkoxy, pyrrolidin-1-yl-(2-4C)alkoxy, piperidino-(2-4C)alkoxy, morpholino-(2-4C)alkoxy, piperazin-1-yl-(2-4C)alkoxy, 4-(1-4C)alkylpiperazin-1-yl-(2-4C)alkoxy, (1-4C)alkylthio-(2-4C)alkoxy, (1-4C)alkylsulphinyl-(2-4C)alkoxy, (1-4C)alkylsulphonyl-(2-4C)alkoxy, halogeno-(2-4C)alkylamino, hydroxy-(2-4C)alkylamino, (1-4C)alkoxy-(2-4C)alkylamino, amino-(2-4C) alkylamino, (1-4C)alkylamino-(2-4C)alkylamino, di-[(1-4C)alkyl]amino-(2-4C)alkylamino, pyrrolidin-1-yl-(2-4C) alkylamino, piperidino-(2-4C)alkylamino, morpholinowherein m is 1 or 2 and each R^1 is independently hydrogen, halogeno, trifluoromethyl, hydroxy, amino, nitro, cyano, carboxy, carbamoyl, (1–4C)alkoxycarbamoyl, (1–4C)alkyl, (1–4C)alkoxy, (1–4C)alkylamino, di-[(1–4C)alkyl]amino, (2–4C)alkanoylamino, <u>N</u>-(1–4C)alkylcarbamoyl or <u>N,N</u>-di-[(1–4C)alkyl]carbamoyl; and wherein Q^2 is phenyl optionally bearing up to 3 substituents selected from halogeno, trifluoromethyl, cyano, hydroxy, amino, nitro, carboxy, carbamoyl, (1–4C) alkoxycarbonyl, (1–4C)alkyl, (1–4C)alkoxy, (1–4C) alkylamino, di-[(1–4C)alkyl]amino, (2–4C)alkanoylamino, <u>N</u>-(1–4C)alkylcarbamoyl and <u>N,N-di-(1–4C)</u> alkylcarbamoyl, or Q^2 is a group of the formula II



wherein X^2 is a group of the formula CO, C(R₃)₂, CH(OR³), $C(R^3)_2 - C(R^3)_2$, $C(R^3) = C(R^3)$, C = C, CH(CN), O, S, SO, SO₂, N(R³), CON(R³), SO₂N(R³), N(R³)CO, N(R³)SO₂, $OC(R^3)_2$, $SC(^3)_2$, $C(R^3)_2O$ or $C(R^3)_2S$ wherein each R^3 is independently hydrogen or (1-4C)alkyl, Q³ is phenyl or naphthyl or a 5- or 6-membered heteroaryl moiety containing up to 3 heteroatoms selected from oxygen, nitrogen and sulphur, which heteroaryl moiety is a single ring or is fused to a benzo ring, and wherein said phenyl or naphthyl group or heteroaryl moiety optionally bears up to 3 substituents selected from halogeno, trifluoromethyl, cyano, hydroxy, amino, nitro, carboxy, carbamoyl, (1-4C)alkoxycarbonyl, (1-4C)alkyl, (1-4C)alkoxy, (1-4C)alkylamino, di-[(1-4C) alkyl]amino, (2-4C)alkanoylamino, N-(1-4C) alkylcarbamoyl and N,N-di-[(1-4C)alkyl]carbamoyl, n is 1, 2 or 3 and each R⁴ is independently hydrogen, halogeno, trifluoromethyl, cyano, hydroxy, amino, nitro, (1-4C)alkyl, (1-4C)alkoxy, (1-4C)alkylamino, di-[(1-4C)alkyl]amino or (2-4C)alkanovlamino;

or a pharmaceutically-acceptable salt thereof.

im Patentanspruch

Π

US 5866572 Quinazoline derivatives

MARKUSH-Strukturen als Teil von SciFinder

- Generische, hypothetische Substanzen aus den Patentansprüchen
- Inhalt:
 - Mehr als 1022000 suchbare Markush-Strukturen aus Patenten des Zeitraums 1961 - heute
 - Mehr als 421000 anzeigbare Patente, die Markush-Strukturen enthalten
 - Anzeigbare Informationen: Bibliographische Angaben, Zusammenfassung, and CAS-Schlagworte (incl. Substanzen)
- Umfang:
 - Markush-Strukturen organischer oder organometallischer Moleküle, die in Patenten gefunden werden
 - Nicht enthalten: Legierungen und intermetallische Verbindungen, Metalloxide, anorganische Salze, Polymere

• Update-Frequenz:

Täglich mit ca. 60-75 Patenteinträgen und 150-200 Markush-Strukturen

Ergebnis der Markush-Struktursuche



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Patentangaben im Einzeltreffer



Zugang zu den Patentvolltexten



Das Deckblatt einer Patentschrift

BUNDESREPUBLIK DEUTSCHLAND DEUTSCHES	 Diffenleg DE 19957 Aktenzeichen: Anmeldetag: Offenlegungstag: 	ungsschrift 342 A 1 199 57 342.5 29. 11. 1999 31. 5. 2001	(5) Int. Cl. ⁷ : A 61 K 38/19 A 61 K 31/4025 A 61 P 29/00 A 61 P 5/48 F 7 7 7	Wichtigste bibliographische Daten: Titel der Erfindung Dokumentennummer, Dokumentenart
PATENT- UND MARKENAMT			DE 199 5	Notationen der Internationalen Patentklassifikation (IPC) Erfinder, Anmelder,
(7) Anmelder: Grünenthal GmbH, 5207	8 Aachen, DE	 (72) Erfinder: Frosch, Stefanie, Dipl Germann, Tieno, Dr., 52 (56) Für die Beurteilung der zu ziehende Druckschri WO 97 41 844 A 	Biol. Dr., 52078 Aachen, DE; 2134 Herzogenrath, DE • Patentfähigkeit in Betracht ften: 1	Patentanwalt/Vertreter Anmeldenummer, Prioritäts- angaben, Datumsangaben
		WO 40 269 A WO 10 552 A GALLILY, R., et.al.: Myco ced inflammatory resp tive modulation by ami , pentoxifylline and IL-1 23/6, S.495-505; PISCITELLI, S.C.: Use of for the treatment of HIV I Meeting, 1998, Vol.55,	2 2 plasma fermentans - Indu- onse of astrocytes: Selec- inoguanidine, thalidomide 10. Inflammation, 1996, f immunomodulation / infection. ASHP Annua June,S.35;	Zusammenfassung: Bezeichnung der Erfindung, Kurzfassung des technischen Inhalts der Anmeldung (Pro- blem, Lösung, hauptsächliche Verwendungsmöglichkeit)
Die folgenden (A) Verfahren zur Behandlu	Angaben sind den vom An ng und/oder Prophylaxe vo	melder eingereichten Unterlag on IL-12-bedingten Erkrankunge	en entnommen	nung bzw. chemische Struk-

turformel, die die Erfindung

am deutlichsten

kennzeichnet.

(a) Verfahren zur Behandlung und/oder Prophylaxe von IL-12-bedingten Erkrankungen

ി Es wird eine Kombinationstherapie zur Behandlung von Erkrankungen, die durch die Bildung des entzündungsfördernden Zytokins IL-12 hervorgerufen werden, beschrieben, wobei gleichzeitig eine Thalidomidverbindung und ein antiinflammatorisches Zytokon appliziert werden.
	Anzahl der gefundenen Patente	Davon nur so gefunden		
Research Topic thalidomide analogs (thalidomide derivatives, thalidomide compounds, substituted thalidomides)	419	258 (viele nicht relevant)		
50-35-1D	157	49 (alle relevant)		
Substruktursuche	292	152 (alle relevant)		
Markush-Suche	96	10 (alle relevant)		
Summe	686	-		
Tipp: Antwortsatz jeder Einzelsuche speichern und mit "Combine Answer Sets" zusammenfassen.				
Save This Answer Set	Combine Answer Sets			
Save: All answers Only selected answers Title: *	*Required Select an option for combining t Combine In Intersect In	Select an option for combining the selected saved answer sets: Image: Combine Include all references from all selected answers Image: Include only references that appear in all selected sets		
Thalidomit-perivate (Wortsuche)		Combine Answer Sets		

Statistische Analyse der Patente (1)



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Statistiken zur Analyse der Konkurrenten (Erfinder und Firmen), der möglichen Einsatzgebiete, des zeitlichen Verlaufs (Trend) usw.

REFERENCES 2			
Analyze	Refine	Categorize	
Analyze Compar	Analyze by: 2 Company-Organization •		
Merck &	Co Inc, US	A 21	
USA		18	
Schering USA	Corporati	on, 17	
Celgene USA	Corporatio	n, 14	
Novacea	Inc, USA	9	
Board of Universit System,	Regents tl y of Texas USA	ne 5	
Gruenen Germany	thal G m b	H, 5	
Jinan Shi Pharmac Science a Technolo Peop Rep	uaihua eutical and ogy Co Ltd, o China	5	
Peop Rep	o China	5	
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Analyze I Index Te	by: 🕑 erm	•	
Human		245	
Antitumo	r agents	231	
Neoplasn	n	178	
Combina chemoth	tion erapy	151	
Drug deli	very syste	ms 143	
Interfero	ns	131	
Antibodie Immunog	es and globulins	123	
Mammar neoplasn	y gland, n	115	
Lung, ne	oplasm	105	
Carcinon	na	102	

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REFERENCES 2			
Analyze	Refine	Categorize	
Analyze ł Publicati	oy: 🖸 ion Year		
2008		43	
2011		35	
2006		34	
2012		32	
2007		31	
2004		29	
2009		27	
2005		26	
2003		26	
2010		20	
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Statistische Analyse der Patente (2)

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Analyze - Publication Year	
21 Items 0 Selected	Export
Sort by: Natural Order Select bars Frequency fe ences within the current answer set.	
2013	0 🔺
2012	32
2011	35 ≡
2010	20
2009	27
2008	43
2007	31
2006	34
2005	26
2004	29
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Firmennamen sind im SciFinder nicht normiert, sondern werden so übernommen, wie sie in den Patenten stehen. Voreingestellt ist die Sortierung nach der Häufigkeit (*Frequency*). Das alphabetische Sortieren ist ebenfalls möglich (*Natural Order*)

Analyze - Company-Organiza	tion		
246 Items 2 Selected	1		Export
Sort by: Natural Order 🔻	🛛 🖣 Page:	1	of 5 🕨 🕨
Select bars to view only those reference	s within the current answer set.		
🔲 Boehringer Ingelheim Pharma	GmbH & Co KG		1
Boehringer Ingelheim Pharmac	ceuticals Inc, USA		2
Calistoga Pharmaceuticals Inc,	, USA		1
Can			1
Capsulution Nanoscience AG, C	Germany		1
Capsulution Pharma AG, Germ	any		1
Celgene Corp, USA			4
Celgene Corporation, USA			14 ≡
Cell Point LLC	-		2
Center for Molecular Medicine	and Immunology		1 -
		Apply	Cancel

Export der Patentstatistiken

F





- Vollständige Suche nach Patenten zu chemischen Substanzen nur unter Einbezug von Struktur-Recherchen und Markush-Patenten möglich.
- Eine im SciFinder durchgeführte (Patent)-Recherche findet ausreichend Material, das den Stand der Technik veranschaulicht.
- Um die Neuheit einer Erfindung zu garantieren, ist eine ergänzende professionelle Suche in spezifischen, kommerziellen Patentdatenbanken (INPADOC, World Patent Index) unbedingt nötig.



Ansprechpartner bei Fragen