

OPEN ACCESS SITES AND SOURCES FOR OPHTHALMOLOGY AND VISION

CHINESE OPHTHALMOLOGICAL SOCIETY
SEPTEMBER, 2006

Pamela C. Sieving, MA, MS
National Institutes of Health Library
Bethesda USA



“An old tradition and a new
technology have converged to make
possible an unprecedented public
good”

--Budapest Open Access Initiative, 2002
(4531 Signatories)

BACKGROUND

- Traditional Publication Process (Peer-review, Publishing, Subscriptions, Archiving on Library Shelves) Has Provided High-Quality Literature, Adequate Access to Information, Preservation
- Today Costs Are a Barrier; Process Is Slow
- New Technologies Make Access to Information Faster, Easier, Better; May Reduce Costs

NEW OPPORTUNITIES

- Better Indexes to the Journal Literature and Related Information
- Open-Access Journals
- Impact Factors
- Genetic, Molecular & Bioinformatics Resources
- Scholarly Repositories

INDEXES

- PUBMED pubmed.gov
- GOOGLE SCHOLAR scholar.google.com
- Free Regional Indexes (*African Index Medicus, Index Medicus for the South-East Asian Region, LILACS* for Latin America)
- Many Fee-Based Indexes (*Embase, Web of Science, Science Citation Index, Scopus*)

WHAT IS PUBMED?

- Online Index to Biomedical Journals
 - Free Index to Medline, 1966→
 - Other Content: newspapers, non-medical journals
 - Pre-Medline: before indexing is done
 - Old Medline: 1950-1965
 - Some cites older than 1950
- Links to
 - Free Full-text (10% of citations)
 - Related Articles
 - Books
 - Molecular Databases
 - PubMed Central:
 - Archive of Open-Access Journals
 - Archive of Author Manuscripts

PubMed: old record

The screenshot shows the PubMed website interface. At the top left is the NCBI logo. The main header features the PubMed logo and the text "A service of the National Library of Medicine and the National Institutes of Health". On the top right, there is a "My NCBI" section with a user name "Welcome pcsieving." and a "Sign Out" link. Below the header is a navigation bar with tabs for "All Databases", "PubMed", "Nucleotide", "Protein", "Genome", "Structure", "OMIM", "PMC", "Journals", and "Books". The search bar contains the text "PubMed" in a dropdown menu, "for eye diseases" in the input field, and "Go", "Clear", and "Save Search" buttons. Below the search bar are buttons for "Limits", "Preview/Index", "History", "Clipboard", and "Details". A yellow highlighted bar indicates the search limits: "Limits: Publication Date from 1900 to 1940". Below this, there are dropdown menus for "Display Abstract", "Show 20", "Sort by", and "Send to". A "All: 1" button is also present. The search results section shows a single result: "1: [Trans Am Ophthalmol Soc.](#) 1909;12(Pt 1):31-61." This result is circled in red. To the right of the result is a link for "Related Articles, Links". Below the result are two badges: "FREE full text article in PubMed Central" and "NIH LIBRARY FULL-TEXT PLUS!". The title of the article is "A Classification of Eye Diseases: With the Outline of a Universal Morbidity List Based on the Nomenclature of Diseases of the Royal College of Physicians, of London." The author is "Duane A." and the PMID is "16692177 [PubMed]". At the bottom of the results section, there are another set of dropdown menus for "Display Abstract", "Show 20", "Sort by", and "Send to".

PubMed: very new record and related articles link

NCBI PubMed A service of the National Library of Medicine and the National Institutes of Health [www.pubmed.gov](#) My NCBI [Welcome pamsieving.](#) [\[Sign Out\]](#)

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for eye diseases

Limits

Display AbstractPlus Show 20 Sort by Send to

All: 1 Review: 0

1: [Biochem Biophys Res Commun.](#) 2006 Aug 11;346(4):1158-62. Epub 2006 Jun 9. **ELSEVIER** [Links](#)
FULL-TEXT ARTICLE

A novel BLYS antagonist peptide designed based on the 3-D complex structure of BCMA and BLYS.

[Sun J](#), [Feng J](#), [Li Y](#), [Shen B](#).

Department of Molecular and Cellular Pharmacology, College of Pharmaceutical Science and Technology, Tianjin University, Tianjin 300072, PR China. jsun@public3.bta.net.cn

B lymphocyte stimulator (BLYS) is a member of tumor necrosis factor (TNF) family. Because of its roles in autoimmune diseases such as systemic lupus erythematosus (SLE), rheumatoid arthritis (RA), and Sjogren syndrome (SS), BLYS antagonists have been tested to treat SLE- and RA-like symptoms in mice and obtained optimistic results. So far, reported BLYS antagonists were mostly decoyed BLYS receptors or anti-BLYS antibodies. In this study, a novel BLYS antagonist peptide, PT, was designed based on the modeling 3-D complex structure of BCMA and BLYS. The interaction mode of PT with BLYS was analyzed theoretically. The results of competitive ELISA demonstrated that PT could inhibit the binding of BCMA-Fc and anti-BLYS antibody to BLYS in vitro. In addition, PT could partly block the proliferating activity of BLYS on mice splenocytes. The BLYS antagonizing activity of PT was significant ($p < 0.05$). This study highlights the possibility of using BLYS antagonist peptide to neutralize BLYS activity. Further optimization of PT with computer-aided molecular design method to enhance its biopotency may be useful

Related Links

- ▶ [\[B lymphocyte stimulator \(BLYS\) and monocytes: possible role in autoimmune disease \[Reumatismo. 2004\]](#)
- ▶ [Systemic lupus erythematosus: a blissless disease of too much BLYS \(B lymphocyte\) \[Curr Opin Rheumatol. 2002\]](#)
- ▶ [Targeting B lymphocyte stimulator in systemic lupus erythematosus and other : \[Expert Opin Ther Targets. 2004\]](#)
- ▶ [Mechanism of BLYS action in B cell immunity. \[Cytokine Growth Factor Rev. 2002\]](#)
- ▶ [BlySfulness does not equal blissfulness in systemic lupus erythematosus: a thera; \[Curr Dir Autoimmun. 2005\]](#)
- ▶ [See all Related Articles...](#)

PubMed: newspaper article

The screenshot shows the PubMed website interface. At the top, the NCBI logo is on the left, and the PubMed logo with the URL www.pubmed.gov is in the center. To the right, it says "A service of the National Library of Medicine and the National Institutes of Health". In the top right corner, there is a "My NCBI" box with the text "Welcome pcsieving. [Sign Out]". Below the header, there is a navigation bar with links for "All Databases", "PubMed", "Nucleotide", "Protein", "Genome", "Structure", "OMIM", "PMC", "Journals", and "Books". A search bar contains the text "PubMed" and "for" followed by a search button "Go" and a "Clear" button. Below the search bar, there are buttons for "Limits", "Preview/Index", "History", "Clipboard", and "Details". A "Display" dropdown menu is set to "Abstract", with "Show 20" and "Sort by" options. Below this, it says "All: 1" with a refresh icon. The main content area shows a search result for "Wall St J (East Ed). 2006 Feb 14;:B1, B8." which is circled in red. To the right of this result is a link for "Related Articles, Links". Below the result, there is a "NIH LIBRARY FULL-TEXT PLUS!" logo. The article title is "More Chinese get free drugs in clinical trials." by "Berton E.". Under "Publication Types:", there is a link for "Newspaper Article". At the bottom, the PMID is listed as "PMID: 16528877 [PubMed - indexed for MEDLINE]". On the left side of the page, there is a vertical menu with links for "About Entrez", "Text Version", "Entrez PubMed", "Overview", "Help | FAQ", "Tutorials", "New/Noteworthy", "E-Utilities", "PubMed Services", "Journals Database", "MeSH Database", "Single Citation Matcher", "Batch Citation Matcher", and "Clinical Queries".

PubMed: icons for abstracts & free full-text

All: 4 

Items 1 - 4 of 4

- 1: [Seitsonen S, Lemmela S, Holopainen J, Tommila P, Ranta P, Kotamies A, Moilanen J, Palosaari T, Kaarniranta K, Meri S, Immonen J, Järvelä I](#)
 ←Free Full Text (green) : factor H, the elongation of very long chain fatty acids-like 4 and the hem age-related macular degeneration in the Finnish population.
Mol Vis. 2006 Jul 20;12:796-801.
PMID: 16885922 [PubMed - in process]
- 2: [Hubbard AF, Askew EW, Singh N, Leppert M, Bernstein PS](#)
 ←Abstract : ose and red blood cell lipids with severity of dominant Stargardt macular dystrophy (STGD): ELOVL4 mutation.
Arch Ophthalmol. 2006 Feb;124(2):257-63.
PMID: 16476896 [PubMed - indexed for MEDLINE]
- 3: [Karan G, Lillo C, Yang Z, Cameron DJ, Locke KG, Zhao Y, Thirumalaichary S, Li C, Birch DG, Vollmer-Snarr HR, Williams DS, Zhar](#)
 ←Text in PubMed Central (orange) and photoreceptor degeneration in mutant ELOVL4 tran for macular degeneration.
Proc Natl Acad Sci U S A. 2005 Mar 15;102(11):4164-9. Epub 2005 Mar 4.
PMID: 15749821 [PubMed - indexed for MEDLINE]
- 4: [KLIMKOVA-DEUTSCHOVA E, VELICKY J](#)
 ←No abstract, not Free Full Text : ological and endocrine complications.
Ophthalmologica. 1992 Mar;125(3):162-8. No abstract available.
PMID: 14948227 [PubMed - OLDMEDLINE for Pre1966]

PubMed: limit to Free Full Text

The screenshot shows the PubMed search interface. At the top, the NCBI logo is on the left, and the PubMed logo with the URL www.pubmed.gov is in the center. To the right, it says "A service of the National Library of Medicine and the National Institutes of Health". In the top right corner, there is a "My NCBI" button and a welcome message "Welcome pcsievin".

The search bar contains the text "PubMed" in a dropdown menu, "for elov4" in the input field, and "Go" and "Clear" buttons. Below the search bar, there are tabs for "Limits", "Preview/Index", "History", "Clipboard", and "Details". The "Limits" tab is circled in red.

Below the tabs, the text "Limit your search by any of the following criteria." is displayed. There are several filter sections:

- Search by Author:** Includes an "Add Author" button and a "CLEAR" button.
- Search by Journal:** Includes an "Add Journal" button and a "CLEAR" button.
- Full Text, Free Full Text, and Abstracts:** Includes a "CLEAR" button and three checkboxes: "Links to full text" (unchecked), "Links to free full text" (checked and circled in red), and "Abstracts" (unchecked).
- Dates:** Includes a "CLEAR" button and two dropdown menus: "Published in the Last:" and "Added to PubMed in the Last:", both set to "Any date".
- Humans or Animals:** Includes a "CLEAR" button and two checkboxes: "Humans" (unchecked) and "Animals" (unchecked).
- Gender:** Includes a "CLEAR" button and two checkboxes: "Male" (unchecked) and "Female" (unchecked).

On the left side of the page, there is a navigation menu with the following items: "About Entrez", "Text Version", "Entrez PubMed" (with sub-items: Overview, Help | FAQ, Tutorials, New/Noteworthy, E-Utilities), "PubMed Services" (with sub-items: Journals Database, MeSH Database, Single Citation Matcher, Batch Citation Matcher, Clinical Queries, Special Queries, LinkOut, My NCBI), and "Related Resources".

PubMed: free full-text

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for [] Go Clear

Limits Preview/Index History Clipboard Details

Display Citation Show 20 Sort by Send to

All: 1

1: [J Cell Mol Med. 2005 Oct-Dec;9\(4\):961-5.](#) [Related Articles](#), [Links](#)

J. Cell. Mol. Med.
free full text at
www.jcmm.ro

NIH LIBRARY
FULL-TEXT PLUS!

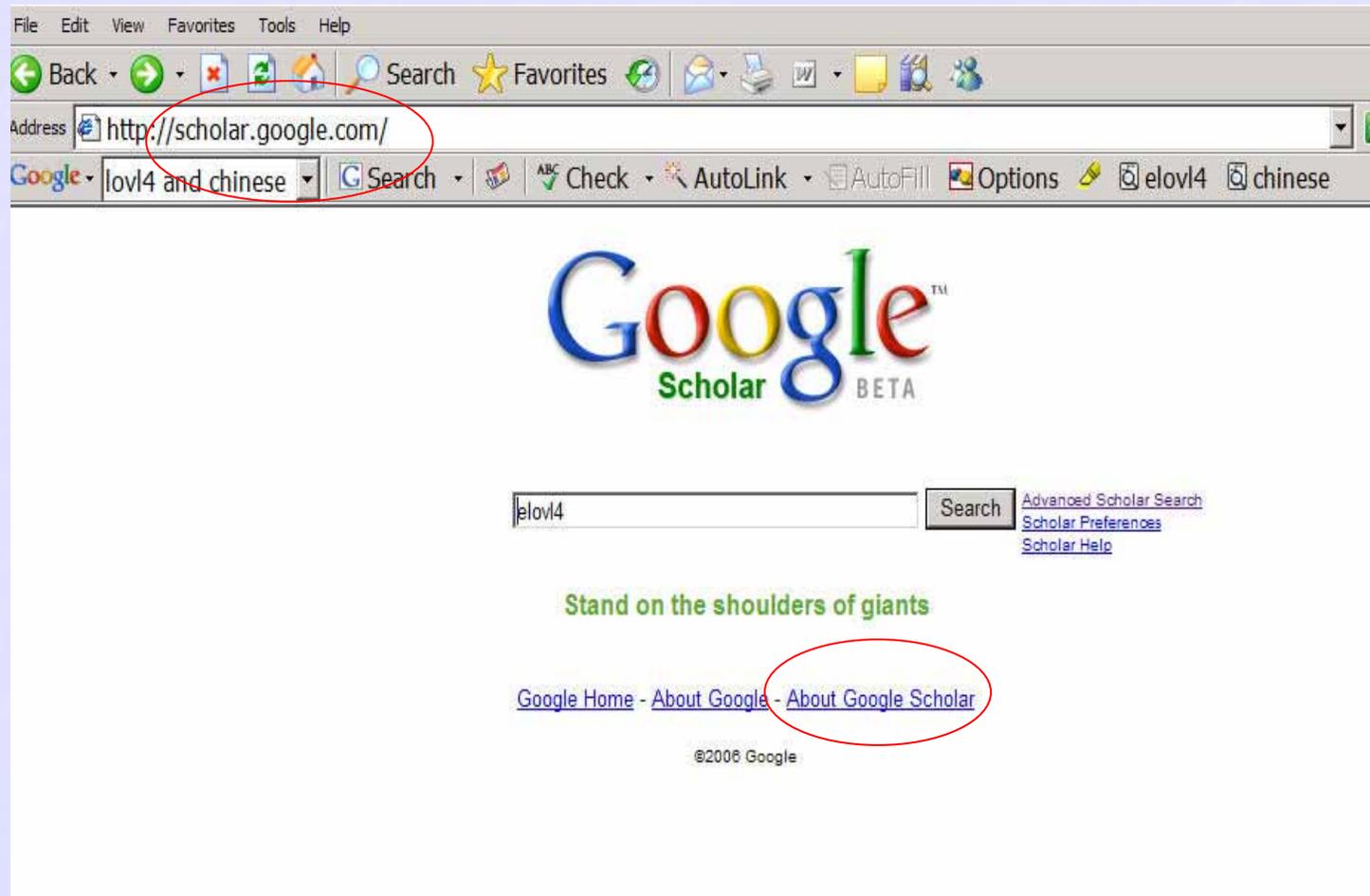
Evaluation of the ELOVL4 gene in a Chinese family with autosomal dominant STGD3-like macular dystrophy.

[Lai Z](#), [Zhang XN](#), [Zhou W](#), [Yu R](#), [Le YP](#).

Institute of Biochemistry and Cell Biology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences.

Stargardt disease-3 (STGD3) is an autosomal dominant juvenile-onset macular dystrophy characterized by progressive decreasing visual acuity, bilateral atrophic changes in the macula and absence of characteristic dark choroids. We identified a STGD3-like macular dystrophy pedigree by clinical examination. To explore whether the STGD3-like phenotype in the kindred is linked to ELOVL4 gene or associated with any other identified STGD gene, we extracted genomic DNA from leukocytes of peripheral blood from the available family members and 50 normal controls for mutation analysis. Then the exons of ELOVL4, RDS and the three exons of ABCR were amplified by polymerase chain reaction (PCR). All PCR products were screened for mutations by combination

GOOGLE SCHOLAR: SIMPLE; BROAD; MULTI-DISCIPLINARY; RANKED RESULTS



Google Scholar search: 81cites to Zhang paper

Address <http://scholar.google.com/scholar?q=elovl4+&ie=UTF-8&oe=UTF-8&hl=en&btnG=Search> Go Links

Google elovl4 Search Check AutoLink AutoFill Options elovl4

Google Scholar elovl4 Search [Advanced Scholar Search](#) [Scholar Preferences](#) [Scholar Help](#)

Scholar Results 1 - 10 of about 184 for elovl4 . (0.03 seconds)

[A 5-bp deletion in **ELOVL4** is associated with two related forms of autosomal dominant macular ...](#) - [Full-Text Plus!](#) - [All articles](#) [Recent articles](#)
[group of 3 »](#)
K Zhang, M Kniazeva, M Han, W Li, Z Yu, Z Yang, Y ... - Nature Genetics, 2001 - nature.com
... A 5-bp deletion in **ELOVL4** is associated with two related forms of autosomal dominant macular dystrophy. ... Figure 4. Expression analysis of **ELOVL4**. ...
[Cited by 81](#) - [Cached](#) - [Web Search](#) - [BL Direct](#)

[Diverse Macular Dystrophy Phenotype Caused by a Novel Complex Mutation in the **ELOVL4** Gene](#) - [group of 6 »](#)
PS Bernstein, J Tammur, N Singh, A Hutchinson, M ... - Investigative Ophthalmology & Visual Science, 532 - iovs.org
... and Ophthalmology, Inc. Diverse Macular Dystrophy Phenotype Caused by a Novel Complex Mutation in the **ELOVL4** Gene. Paul S. Bernstein ...
[Cited by 26](#) - [Web Search](#) - [Full-Text Plus!](#) - [BL Direct](#)

[Evaluation of the **ELOVL4** gene in patients with age-related macular degeneration](#) - [group of 5 »](#)
R Ayyagari, K Zhang, A Hutchinson, Z Yu, A Swaroop ... - Ophthalmic Genetics, 2001 - Taylor & Francis
... **ELOVL4** variants in AMD patients 233 Ophthalmic Genetics 1381-6810/01/ US\$ 16.00 ... Accepted
13 August 2001 Evaluation of the **ELOVL4** gene in patients ...
[Cited by 12](#) - [Web Search](#) - [Full-Text Plus!](#) - [BL Direct](#)

[Evaluation of the **ELOVL4** gene in families with retinitis pigmentosa linked to the RP25 locus](#) - [Full-Text Plus!](#) - [group of 5 »](#)
Y Li, I Marcos, S Borrego, Z Yu, K Zhang, G ... - 2001 - jmg.bmjournals.com
... and Guillermo locus RP25 retinitis pigmentosa linked to the gene in families

Google Scholar: citing references

Address <http://scholar.google.com/scholar?hl=en&lr=&safe=off&cites=17215430600138657942>

Google elovl4 Search Check AutoLink AutoFill Options elovl4

Google Scholar BETA Search [Advanced Scholar Search](#) [Scholar Preferences](#) [Scholar Help](#)

Scholar Results 1 - 10 of about 81 citing [Zhang: A 5-bp deletion in ELOVL4 is associated with two related forms of autosomal dominant macular...](#)

[Confronting complexity: the interlink of phototransduction and retinoid metabolism in the vertebrate ...](#) - group of 8 »
JK McBee, K Palczewski, W Baehr, DR Pepperberg - Prog. Retin. Eye Res, 2001 - pubmedcentral.nih.gov
Related material: PubMed record. ...
[Cited by 105](#) - [Cached](#) - [Web Search](#)

[Drusen proteome analysis: An approach to the etiology of age-related macular degeneration](#) - group of 10 »
JW Crabb, M Miyagi, X Gu, K Shadrach, KA West, H ... - Proceedings of the National Academy of Sciences, 2002 - pnas.org
Published online before print October 21, 2002, 10.1073/pnas.222551899 PNAS | November 12, 2002 | vol. 99 | no. 23 | 14682-14687. Abstract of this Article () ...
[Cited by 89](#) - [Web Search](#) - [Full-Text Plus!](#) - [BL Direct](#)

[An Analysis of Allelic Variation in the ABCA4 Gene](#) - group of 6 »
AR Webster, E Heon, AJ Lotery, K Vandenberg, TL ... - Investigative Ophthalmology & Visual Science, 907 - iovs.org
Abstract of this Article (). PDF Version of this Article. Citation Map. Email this article to a friend. eLetters: Submit a response to this article. ...
[Cited by 48](#) - [Web Search](#) - [Full-Text Plus!](#) - [BL Direct](#)

[Identification of a Mammalian Long Chain Fatty Acyl Elongase Regulated by Sterol Regulatory Element- ...](#) - [Full-Text Plus!](#) - group of 3 »
YA Moon, NA Shah, S Mohapatra, JA Warrington, JD ... - Journal of Biological Chemistry, 2001 - jbc.org
Institution: Google Indexer Sign In as Member/Non-Member. Originally published In Press as doi:10.1074/jbc.M108413200 on September 20, 2001 J. Biol. Chem., Vol. ...
[Cited by 42](#) - [Web Search](#) - [BL Direct](#)

Web of Science: 71 cites

ISI Web of KNOWLEDGESM

Article 1 of 1

ISI JOURNAL CITATION reports

A 5-bp deletion in ELOVL4 is associated with two related forms of autosomal dominant macular dystrophy
Zhang K, Kniazeva M, Han M, Li W, Yu ZY, Yang ZL, Li Y, Metzker ML, Allikmets R, Zack DJ, Kakuk LE, Lagali PS, Wong PW, MacDonald IM, Sieving PA, Figueroa DJ, Austin CP, Gould RJ, Ayyagari R, Petrukhin K
NATURE GENETICS
27 (1): 89-93 JAN 2001

Document type: Article Language: English [Cited References: 30](#) [Times Cited: 71](#) [Explanation](#)

Abstract:
Stargardt-like macular dystrophy (STGD3, MIM 600110) and autosomal dominant macular dystrophy (adMD) are inherited forms of macular degeneration characterized by decreased visual acuity, macular atrophy and extensive fundus flecks(1-3). Genetic mapping data suggest that mutations in a single gene may be responsible for both conditions, already known to bear clinical resemblance(1-3). Here we limit the minimum genetic region for STGD3 and adMD to a 0.6-cM interval by recombination breakpoint mapping and identify a single 5-bp deletion within the protein-coding region of a new retinal photoreceptor-specific gene, ELOVL4, in all affected members of STGD3 and adMD families. Bioinformatic analysis of ELOVL4 revealed that it has homology to a group of yeast proteins that function in the biosynthesis of Very long chain fatty acids. Our results are therefore the first to implicate the biosynthesis of fatty acids in the pathogenesis of inherited macular degeneration.

KeyWords Plus:

SCOPUS: 87 cites

Document (sort by relevance)		Author(s)	Date	Source Title	Cited By
21. <input type="checkbox"/>	Autosomal dominant stargardt-like macular dystrophy: Identification of a new family with a mutation in the ELOVL4 gene Abstract + Refs NIH LIBRARY Full Text	Vrabec, T.R. , Tantri, A. , Edwards, A. , Frost, A. , Donoso, L.A.	2003	<i>American Journal of Ophthalmology</i> 136 (3), pp. 542-545	2
22. <input type="checkbox"/>	Evolutionarily conserved ELOVL4 gene expression in the vertebrate retina Abstract + Refs NIH LIBRARY Full Text	Lagali, P.S. , Liu, J. , Ambasudhan, R. , Kakuk, L.E. , Bernstein, S.L. , Seigel, G.M. , Wong, P.W. , Ayyagari, R.	2003	<i>Investigative Ophthalmology and Visual Science</i> 44 (7), pp. 2841-2850	10
23. <input type="checkbox"/>	Genetics of macular dystrophies and implications for age-related macular degeneration. Abstract + Refs NIH LIBRARY	Klaver, C.C. , Allikmets, R.	2003	<i>Developments in ophthalmology</i> 37, pp. 155-169	5
24. <input type="checkbox"/>	Diverse macular dystrophy phenotype caused by a novel complex mutation in the ELOVL4 gene Abstract + Refs NIH LIBRARY Full Text	Bernstein, P.S. , Tammur, J. , Singh, N. , Hutchinson, A. , Dixon, M. , Pappas, C.M. , Zabriskie, N.A. , (...), Allikmets, R.	2001	<i>Investigative Ophthalmology and Visual Science</i> 42 (13), pp. 3331-3336	28
25. <input type="checkbox"/>	Evaluation of the ELOVL4 gene in patients with age-related macular degeneration Abstract + Refs NIH LIBRARY	Ayyagari, R. , Zhang, K. , Hutchinson, A. , Yu, Z. , Swaroop, A. , Kakuk, L.E. , Seddon, J.M. , (...), Allikmets, R.	2001	<i>Ophthalmic Genetics</i> 22 (4), pp. 233-239	10
26. <input type="checkbox"/>	A 5-bp deletion in ELOVL4 is associated with two related forms of autosomal dominant macular dystrophy Abstract + Refs NIH LIBRARY Full Text	Zhang, K. , Kniazeva, M. , Han, M. , Li, W. , Yu, Z. , Yang, Z. , Li, Y. , (...), Petrukhin, K.	2001	<i>Nature Genetics</i> 27 (1), pp. 89-93	87
27. <input type="checkbox"/>	Evaluation of the ELOVL4 gene in families with retinitis	Li, Y. , Marcos, I.	2001	<i>Journal of Medical</i>	8

Google Scholar: personal settings

The screenshot shows a web browser window with the address bar containing `http://scholar.google.com/scholar_preferences?q=elovl4+&hl=en&lr=&safe=off`. The page title is "Preferences" and the Google Scholar logo is visible. A green banner at the top says "Save your preferences when finished and return to search." with a "Save Preferences" button. The "Scholar Preferences" section includes:

- Interface Language:** "Display Google tips and messages in:" followed by a dropdown menu currently set to "Chinese (Traditional)". This dropdown is circled in red.
- Search Language:** Radio buttons for "Search for pages written in any language (Recommended)" and "Search only for pages written in these language(s)". Under the second option, checkboxes are present for Chinese (Simplified), Chinese (Traditional) (checked), English, French, German, Japanese, Portuguese, and Spanish.
- Library Links:** A text input field with a "Find Library" button. Below it, it says "Show library access links for (choose up to three libraries):" with checkboxes for "NIH Library (Full-Text Plus!)" (checked) and "Open WorldCat (Library Search)" (checked).

Google Scholar: personal settings

elovl4 - Google - Microsoft Internet Explorer

http://scholar.google.com/scholar?hl=zh-TW&lr=lang_zh-TW&safe=off&q=elovl4+&btnG=%E6%90%9C%E5%B0%9C

Google 學術搜尋 BETA

elovl4 搜尋

進階學術搜尋
學術搜尋偏好
學術搜尋說明

搜尋所有網站 搜尋所有中文網頁 搜尋繁體中文網頁

您選擇的語言裡，我們找不到任何資料；下列是在其它的語言裡，有關 **elovl4** 的網頁。

學術搜尋 約有184項符合elovl4 的查詢結果，以下是第 1-10項。 (共費0.03秒。)

[A 5-bp deletion in ELOVL4 is associated with two related forms of autosomal dominant macular ... - Full-Text Plus! - 3 個群組 所有文章 最新文章 組 »](#)

K Zhang, M Kniazeva, M Han, W Li, Z Yu, Z Yang, Y ... - Nature Genetics, 2001 - nature.com
... A 5-bp deletion in **ELOVL4** is associated with two related forms of autosomal dominant macular dystrophy. ... Bioinformatic analysis of **ELOVL4** revealed that it has homology to a group of yeast proteins that function in the biosynthesis of very long ...
被引用 81 次 - 真庫存檔 - 網頁搜尋

[Diverse Macular Dystrophy Phenotype Caused by a Novel Complex Mutation in the ELOVL4 Gene - 6 個群組 »](#)

PS Bernstein, J Tammur, N Singh, A Hutchinson, M ... - Investigative Ophthalmology & Visual Science, 532 - iovs.org
... Ophthalmology, Inc. Diverse Macular Dystrophy Phenotype Caused by a Novel Complex Mutation in the **ELOVL4** Gene. Paul ... pattern dystrophy. This has been the only mutation identified in **ELOVL4** to date, which is associated with macular dystrophy phenotypes ...
被引用 26 次 - 網頁搜尋 - Full-Text Plus!

[Evaluation of the ELOVL4 gene in patients with age-related macular degeneration - 5 個群組 »](#)

R Ayyagari, K Zhang, A Hutchinson, Z Yu, A Swaroop ... - Ophthalmic Genetics, 2001 - Taylor & Francis
... Abstract Stargardt-like macular degeneration (STGD3) and auto- somal dominant macular degeneration (dMD) share phenotypic characters with atrophic age-related macular

WHAT IS 'OPEN ACCESS'?

- Users: have rights to

- Access at no cost
- Use, copy
- Distribute, display

- Users: must

- Credit original author
- Respect integrity of work
- Respect intellectual property rights and copyright

- Authors and Copyright Holders:

- Retain copyright (but individual rights more often stay with author)
- Deposit at least one copy in a reliable archive
 - Users can find information
 - Preservation is important

WHO PAYS?

■ Traditional Model:

- Funded research (grant, university)
- Author performs research, writes report
- Peer-reviewers, editors often unpaid
- Journal publishes, distributes
- Report purchased by individual or library subscription
- Library maintains archive

■ Open Access Model:

- Funder, author, reviewer and editor functions the same
- Costs paid by:
 - Grant (NIH, Wellcome Trust)
 - Author's Library (BMC journals)
 - Scientific societies
 - Other (endowments, etc)
- More distribution is electronic
- Archiving by libraries and depositories.

VISION JOURNALS COST vs IMPACT FACTORS

Prog Ret Eye Research \$1109/#1

Ophthalmology \$460/#2

IOVS** \$710/#3

Surv Ophthalmol \$219/#4

Journal of Vision** \$0/#5

Arch Ophthalmol** \$410/#6

Exp Eye Res \$3443/#7

Br J Ophthalmol** \$645/#8

Am J Ophthalmol \$439/#9

Molecular Vision** \$0/#10

**Open or partially open. 2005 ISI impact factors;
2006 library subscription prices.

Data compiled by B. Anton, UC-Berkeley

IMPACT FACTOR

- Impact Factor is a Simple Calculation Garfield Science 122:108
 - Number of citations in one year to articles published in previous two years, divided by
 - Number of articles published in those two years.
- ISI is the 'Official' Impact Factor
- You May Calculate for Journals Not Indexed by ISI
- Another Option: H-Index Hirsch PNAS 102:16569
 - Index H if H of researcher's papers have at least H citations each
 - Calculation is based on researcher's most-cited papers only
- Sources of data:
 - ISI
 - Google Scholar
 - Scopus (from Elsevier)

DOES OPEN ACCESS AFFECT IMPACT FACTORS?

- Easy Access??=More and Earlier Citations
- Plutchak J Med Lib Assn 93:419
 - 5000 print copies of each quarterly issue
 - 20,000 uses/month online through PubMed Central
- Eysenbach PLoS Biology 4:e157
 - PNAS papers published June-December 2004
 - 51% of non-OA papers cited by April 2005
 - 63% of OA papers cited by April 2005
 - Average # of citations higher for OA papers
 - Eysenbach already cited 6 times since May 2006

GENETICS RESOURCES

- NCBI Resources:

www.ncbi.nlm.nih.gov

- GeneTests:

www.genetests.org

PubMed: links

The screenshot shows the PubMed website interface. At the top, the NCBI logo is on the left, and the PubMed logo with the URL www.pubmed.gov is in the center. To the right, it says "A service of the National Library of Medicine and the National Institutes of Health". A "My NCBI" box on the far right shows the user "pcsieving" is logged in, with a "Sign Out" link.

The navigation bar includes links for "All Databases", "PubMed", "Nucleotide", "Protein", "Genome", "Structure", "OMIM", "PMC", "Journals", and "Books". The search bar contains the text "zhang xn and elovl4" with "Go", "Clear", and "Save Search" buttons.

Below the search bar are tabs for "Limits", "Preview/Index", "History", "Clipboard*", and "Details". The "Display" dropdown is set to "Summary", "Show" is set to "20", and "Sort by" and "Send to" are also dropdown menus. A status bar shows "All: 1" with a refresh icon.

The search results show one entry: "1: [Lai Z. Zhang XN. Zhou W. Yu R. Le YP.](#) Evaluation of the [ELOVL4](#) gene in a Chinese family with autosomal dominant STGD3-like macular dystrophy. J Cell Mol Med. 2005 Oct-Dec;9(4):961-5. PMID: 16364203 [PubMed - indexed for MEDLINE]".

A "Links" dropdown menu is open, circled in red, showing the following options: Gene, HomoloGene, OMIM (calculated), UniGene, Nucleotide, Protein, GEO Profiles, Books, and LinkOut.

PubMed: OMIM

NCBI
OMIM
Online Mendelian Inheritance in Man
Johns Hopkins University

My NCBI
Welcome pamsieving. [Sign Out](#)

All Databases PubMed Nucleotide Protein Genome Structure PMC Taxonomy OMIM

Search **OMIM** for

Limits Preview/Index History Clipboard Details

Display Clinical Synopsis Show 20 Send to

All: 4 OMIM dbSNP: 0 OMIM UniSTS: 3

Items 1 - 4 of 4 One page.

- 1: [*605512](#)
ELONGATION OF VERY LONG CHAIN FATTY ACIDS-LIKE 4; ELOVL4
No clinical synopsis. [GeneTests, Links](#)
- 2: [*605512](#)
ELONGATION OF VERY LONG CHAIN FATTY ACIDS-LIKE 4; ELOVL4
No clinical synopsis. [GeneTests, Links](#)
- 3: [#600110](#)
STARGARDT DISEASE 3; STGD3

Clinical Synopsis

Eyes :
 - Progressive macular dystrophy
 - Macular flecks
 - Central macular atrophy
 - Decreased visual acuity[GeneTests, Links](#)

Entrez
OMIM
Search OMIM
Search Gene Map
Search Morbid Map
Help
OMIM Help
How to Link
FAQ
Numbering System
Symbols
How to Print
Citing OMIM
Download
OMIM Facts
Statistics
Update Log
Restrictions on Use
Allied Resources
Genetic Alliance
Databases
HGMD
Locus-Specific
Model Organisms
MitoMan

HomoloGene link

NCBI HomoloGene Discover Homologs

My NCBI Welcome pcsieving. [Sign Out]

All Databases PubMed Nucleotide Protein Genome Structure Map Viewer Gene UniGene OMIM

Search HomoloGene for [] Go Clear

Limits Preview/Index History Clipboard Details

Display Summary Show 20 Send to

All: 1 Fungi: 0 Mammals: 0

1: HomoloGene:41488. Gene conserved in Eukaryota [Download, Links](#)

H.sapiens	ELOVL4	elongation of very long chain fatty acids ...
C.familiaris	LOG481894	similar to elongation of very long chain f...
M.musculus	Elovl4	elongation of very long chain fatty acids ...
R.norvegicus	Elovl4_pr...	elongation of very long chain fatty acids ...
G.gallus	ELOVL4	elongation of very long chain fatty acids ...
D.melanogaster	CG32072	CG32072-PA
A.gambiae	ENSANGG00...	ENSANGP00000016884
P.falciparum	MAL6P1.62	Plasmodium falciparum 3D7 MAL6P1.62 gene

NCBI BLAST



HOME SEARCH SITE MAP PubMed All Databases Human Genome GenBank Map Viewer BLAS

Search across databases

retina

GO

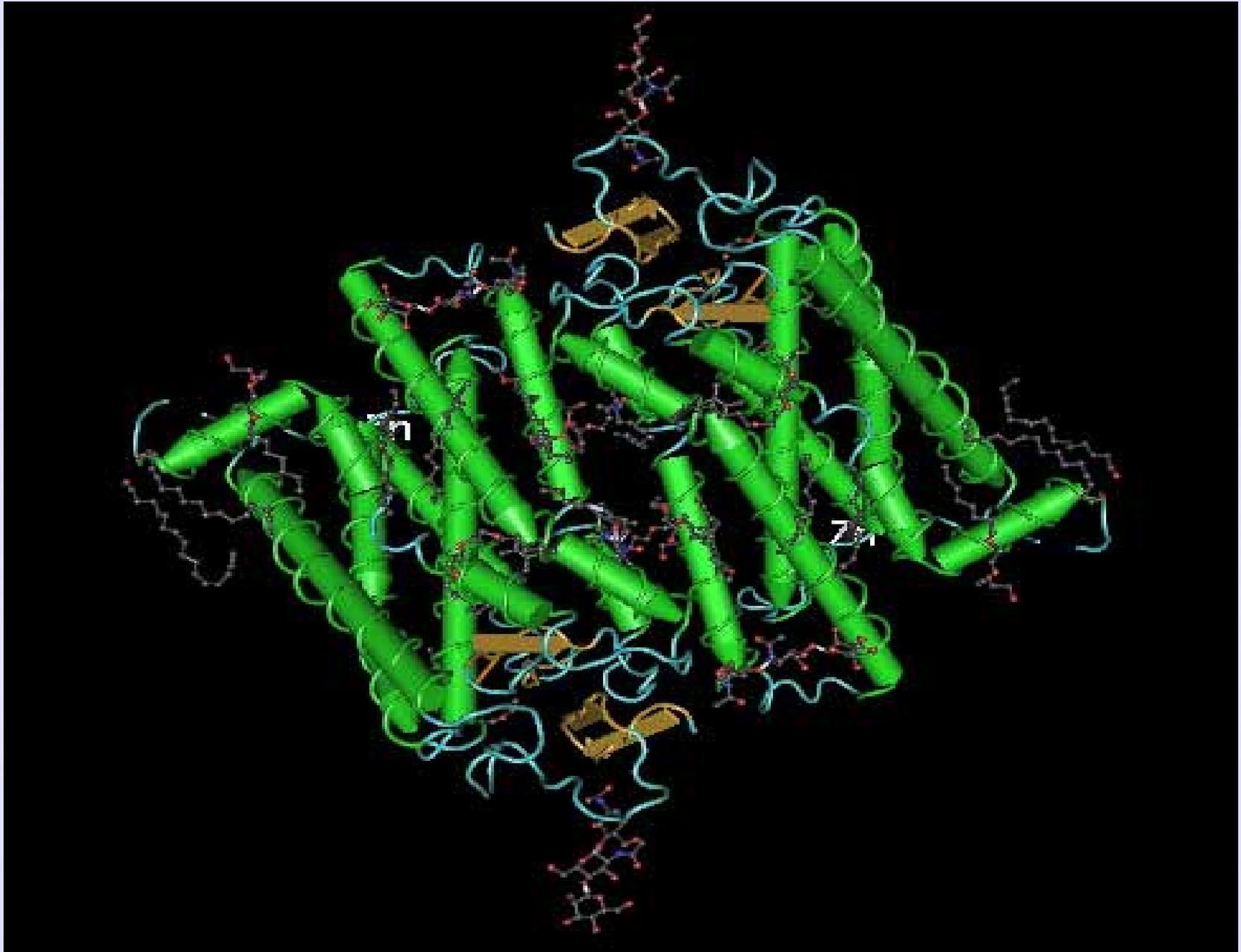
CLEAR

Help

93285		PubMed: biomedical literature citations and abstracts	?	635		Books: online books	?
9673		PubMed Central: free, full text journal articles	?	567		OMIM: online Mendelian Inheritance in Man	?
3		Site Search: NCBI web and FTP sites	?	2		OMIA: Online Mendelian Inheritance in Animals	?
258679		Nucleotide: sequence database (includes GenBank)	?	3702		UniGene: gene-oriented clusters of transcript sequences	?
6561		Protein: sequence database	?	7		CDD: conserved protein domain database	?
2		Genome: whole genome sequences	?	123		3D Domains: domains from Entrez Structure	?
21		Structure: three-dimensional macromolecular structures	?	78		UniSTS: markers and mapping data	?
none		Taxonomy: organisms in GenBank	?	4		PopSet: population study data sets	?
none		SNP: single nucleotide polymorphism	?	284637		GEO Profiles: expression and molecular abundance profiles	?
444		Gene: gene-centered information	?	60		GEO DataSets: experimental sets of GEO data	?
462		HomoloGene: eukaryotic homology groups	?	none		Cancer Chromosomes: cytogenetic databases	?
		PubChem Compound: unique small molecule	?			PubChem BioAssay: bioactivity screens of	?

rhodopsin

NCBI 3D Domains: bovine rhodopsin



Home Page	About GeneTests	 GeneReviews	Laboratory Directory	Clinic Directory	Educational Materials
-----------	-----------------	---	----------------------	------------------	-----------------------

Funded by the National Institutes of Health



08/21/06

353 GeneReviews
1,130 Clinics
605 Laboratories testing for
1,292 Diseases
999 Clinical
293 Research only

Administrative Use
(For Laboratory/Clinic Contacts, User Groups)

Welcome to the **GeneTests** Web site, a publicly funded medical genetics information resource developed for physicians, other healthcare providers, and researchers, available at no cost to all interested persons. Use of this Web site assumes acceptance of the [terms of use](#).

At This Site

- ▶ **GeneReviews**
Online publication of expert-authored disease reviews
- ▶ **Laboratory Directory** 
International directory of genetic testing laboratories
- ▶ **Clinic Directory**
International directory of genetics and prenatal diagnosis clinics
- ▶ **Educational Materials**
 - [Illustrated glossary](#)
 - [About genetic services](#)
 - [PowerPoint® slide presentations](#)

NOTE: The GeneTests Web site will be unavailable for approximately five minutes sometime between 6AM and 7AM Pacific Standard Time, Tuesday 8-22-06. We regret the inconvenience.

What's New

- [New Features](#)
- [New in GeneReviews](#)
- [New Lab Listings](#)
 - ▶ **13 new listings**

Visit [GENETIC TOOLS](#) —

GeneReviews: Primary Congenital Glaucoma

Home Page	About GeneTests		Laboratory Directory	Clinic Directory	Educational Materials
---------------------------	---------------------------------	---	--------------------------------------	----------------------------------	---------------------------------------

Primary Congenital Glaucoma

- [Summary](#)
- [Diagnosis](#)
- [Clinical Description](#)
 - [Prevalence](#)
- [Differential Diagnosis](#)
- [Management](#)
- [Genetic Counseling](#)
- [Molecular Genetics](#)
- [Resources](#)
- [References](#)
- [Author Information](#)
- [Top of Page](#)

Printable Copy

(Disable glossary before printing)

Disable Glossary

(Returns to top)

Disease characteristics. Primary **congenital** glaucoma (designated as PCG throughout this review) is characterized by elevated intraocular pressure (IOP), enlargement of the globe (buphthalmos), edema, and opacification of the cornea with rupture of Descemet's membrane, thinning of the anterior sclera and atrophy of the iris, anomalously deep anterior chamber, structurally normal posterior segment except for progressive optic atrophy, and photophobia, blepharospasm, and excessive tearing (hyperlacrimation). Typically, the diagnosis is made in the first year of life. Depending on when treatment is instituted, visual acuity may be reduced and/or visual fields may be restricted. In untreated cases, blindness invariably occurs.

Diagnosis/testing. The diagnosis of PCG is established on clinical findings. *CYP1B1*, the **gene** encoding cytochrome P4501B1, is the only **gene** currently known to be associated with PCG. Two other **loci**, *GLC3B* on 1p36 and *GLC3C* on 14q24.3, have been linked to PCG, but the causative **genes** are not known. **Sequence analysis** of the two coding **exons** of *CYP1B1* is available on a clinical basis. In general, the probability of identifying **mutations** in *CYP1B1* increases with the presence of a positive **family history** for the disease, parental **consanguinity**, and bilateral and severe disease.

Genetic counseling. PCG caused by *CYP1B1* **mutations** is inherited in an **autosomal recessive** manner. **Heterozygotes** (carriers) are asymptomatic. At conception, each sib of an **affected** individual has a 25% chance of being **affected**, a 50% chance of being an asymptomatic **carrier**, and a 25% chance of being **unaffected** and not a **carrier**. **Prenatal diagnosis** for pregnancies at increased risk is possible if both disease-causing **alleles** of an **affected** family member have been identified.

SCHOLARLY REPOSITORIES

- Virtual Archives ('file cabinet' 'storage room')
- Size and Contents Vary
- May Include Dissertations, Manuscripts, Working Papers, etc.

OAISTER

- oaister.umdl.umich.edu
- Metadata provided by creators
- 700 Institutions
- 8,857,000+ records

OAISTER: search results



[View Book](#)

[Home](#) [Search](#) [Browse Institutions](#) [Help](#)

Your search was in the **entire record** field for "**cataract**" and in the **entire record** field for "**china**".

You found **7 records**.

- * [Revise your search](#) to retrieve fewer records.
- * View your results, starting with **records 1 to 7 of 7**.

Results by Institution

Sort by

African Journals Online (AJOL)
1 record

Bioline International (BI)
1 record

Colorado Plateau Digital Archives, Cline Library, Northern Arizona University (NAU)
2 records

HighWire Press, Stanford University
2 records

Hong Kong University Theses Online (HKUTO)
1 record

Record 1 of 7

[add to bookbag](#)

Title	An exploratory study of the quality of life of elderly with cataract in Hong Kong
Author/Creator	Wong, Shuk-wah; 黃淑華
Publisher	University of Hong Kong (Pokfulam Road, Hong Kong)
Year	2005-10-25
Resource Type	Electronic Thesis & Dissertation
Resource Format	application/pdf
Language	English
Source	http://sunzi.lib.hku.hk/hkuto/record/B31250427
Subject	Cataract in old age - Rehabilitation - China - Hong Kong.; Quality of life - China - Hong Kong.
URL	http://sunzi.lib.hku.hk/hkuto/view/B31250427/ft.pdf
Rights	unrestricted,The author retains all proprietary rights, (such as patent rights) and the right to use in future works.
Institution	Hong Kong University Theses Online (HKUTO)

Record 4 of 8[add to bookbag](#)

Title	Cholesterol and age-related macular degeneration : is there a link?
Author/Creator	Leeuwen R van; Klaver, C.C.; Vingerling, J.R.; Hofman A; Duijn, C.M. van; Stricker, B.H.; Jong PT de
Year	2005-05-04T16:26:40Z
Year	2004
Resource Format	361 bytes;text/html
Language	English
Note	PURPOSE: To examine the relation among serum cholesterol, apolipoprotein E genotype (APOE), and the risk of early and late age-related macular degeneration (AMD). DESIGN: The Rotterdam Study, a population based prospective cohort study. METHODS: Serum levels of total and high-density lipoprotein (HDL) cholesterol as well as APOE genotype were determined at baseline. Of 3,944 subjects, 400 were diagnosed with incident early and late AMD after a mean follow-up of 5.2 years. RESULTS: Serum HDL, but not total, cholesterol was associated with an increased risk of AMD (odds ratio/SD, 1.20; 95% confidence interval; 1.06-1.35). The association remained unchanged after adjustment for APOE genotype. When stratifying for APOE genotype, the association was strongest in persons with the e 4 allele; an inverse association seemed to be present for e 2 carriers. CONCLUSION: Elevated HDL but not total cholesterol is associated with an increased risk of AMD. Apolipoprotein E genotype does not explain this association but may be an effect modifier.
Note	Am J Ophthalmol 2004;137:750-2.
Subject	Ophthalmologic disease; 0 (Apolipoproteins E); 0 (Lipoproteins, HDL Cholesterol); 57-88-5 (Cholesterol); Apolipoproteins E/genetics; Cholesterol/*blood; Genotype; Human; Lipoproteins, HDL Cholesterol/blood; Macular Degeneration /*blood/etiology/genetics; Middle Aged; Prospective Studies; Risk Factors; Support, Non-U.S. Gov't
URL	http://hdl.handle.net/1765/5923
Institution	DSpace at Erasmus University Research Online

SUMMARY

- The Traditions of Scholarly Communication are Changing
- Many Resources are Available Freely to Everyone with Web Access
- You Can Use and Help to Improve Access to Information to Improve Ophthalmic Patient Care and Research

ORGANIZATIONS WORKING for ACCESS and CHANGE

- INASP: International Network for Availability of Scientific Publications
www.inasp.info
- Scholarly Publishing & Academic Resources Coalition
www.arl.org/sparc
- Medical Library Association
www.mlanet.org
- Association of Vision Science Librarians
<http://spectacle.berkeley.edu/~library/AVSL.HTM>
- U.S. National Institutes of Health
www.nih.gov
- Wellcome Trust
www.wellcome.ac.uk
- Research Councils of the United Kingdom
www.rcuk.ac.uk
- Association for Research in Vision and Ophthalmology
www.arvo.org
- American Academy of Ophthalmology
www.aao.org

THANK YOU!

PamSieving@nih.gov