

# Μεθοδολογία της Έρευνας

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# Μεθοδολογία της Έρευνας

- Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας και Βιβλιογραφικές βάσεις
- Συστήματα οργάνωσης και διαχείρισης βιβλιογραφίας

# Στόχοι

Να γνωρίσουμε τρόπους:

- Αναζήτησης και ανάκτησης επιστημονικής βιβλιογραφίας
  - Κατάλληλες βάσεις δεδομένων
  - Τρόποι αναζήτησης
  - Αξιοποίηση δυνατοτήτων των ηλεκτρονικών βάσεων
- Οργάνωσης και Διαχείρισης της ανακτηθείσας βιβλιογραφίας



# Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας και Βιβλιογραφικές βάσεις



# Μηχανές αναζήτησης

- Λογισμικά συστήματα που έχουν σχεδιαστεί για την αναζήτηση πληροφοριών στον παγκόσμιο ιστό
- Τα αποτελέσματα παρουσιάζονται σε μια λίστα που συχνά αναφέρεται ως σελίδες αποτελεσμάτων

Search engine ↕	Market share in September 2015 ↕	
Google	69.24%	
Bing	12.26%	
Yahoo!	9.19%	
Baidu	6.48%	
AOL	1.11%	
Ask	0.24%	
Lycos	0.00%	

## Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας

- Εστιάζουν την αναζήτηση σε επιστημονικά δημοσιεύματα (π.χ. άρθρα, βιβλία, έρευνες)

Academic Search engine	Link
<a href="https://scholar.google.gr/">Google Scholar</a>	<a href="https://scholar.google.gr/">https://scholar.google.gr/</a>
<a href="https://eric.ed.gov/">ERIC</a>	<a href="https://eric.ed.gov/">https://eric.ed.gov/</a>
<a href="https://www.base-search.net/">BASE</a>	<a href="https://www.base-search.net/">https://www.base-search.net/</a>
<a href="http://www.refseek.com/">refseek</a>	<a href="http://www.refseek.com/">http://www.refseek.com/</a>

# Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας

## Google Scholar



- Αναζήτηση σε πολλά ερευνητικά πεδία και πηγές:
  - ❑ εργασίες που έχουν αξιολογηθεί από ομότιμους επιστήμονες
  - ❑ διατριβές
  - ❑ βιβλία
  - ❑ περιλήψεις και άρθρα, από ακαδημαϊκούς εκδότες, επαγγελματικές ενώσεις, πηγές προδημοσιεύσεων, πανεπιστήμια
  - ❑ νομοθετήματα
- Η αναζήτηση μπορεί να γίνει με βάση
  - ❑ λέξη κλειδί
  - ❑ συνδυασμό λέξεων
  - ❑ τίτλο
  - ❑ όνομα συγγραφέα

# Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας

## Google Scholar



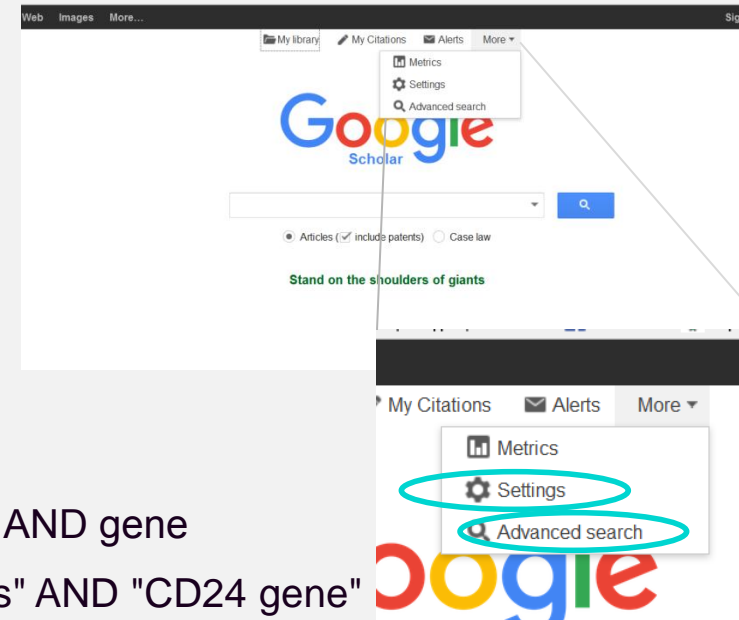
- Κατατάσσει τα άρθρα σταθμίζοντας
  - ❑ το πλήρες κείμενο κάθε άρθρου
  - ❑ τον συγγραφέα
  - ❑ το έντυπο στο οποίο εμφανίζεται το άρθρο
  - ❑ τη συχνότητα βιβλιογραφικής αναφοράς του άρθρου στην υπόλοιπη βιβλιογραφία
- Τα πλέον συναφή αποτελέσματα εμφανίζονται πάντα στην πρώτη σελίδα
- Ένα άρθρο ενδέχεται να
  - ❑ μην είναι διαθέσιμο δωρεάν
  - ❑ είναι προδημοσίευση

# Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας

## Google Scholar

### Αναζήτηση βιβλιογραφίας

- Απλή —→ με κάποιο γενικό όρο χωρίς περιορισμούς ή συνδυασμούς λέξεων π.χ. “multiple sclerosis”, schizophrenia
- Με συνδυασμό όρων με χρήση τελεστών AND, OR π.χ. “multiple sclerosis” AND gene ή “multiple sclerosis” AND “CD24 gene”
- Σύνθετη αναζήτηση μέσα από τις διαθέσιμες επιλογές βελτιστοποιείται η αναζήτηση και ο αριθμός των σχετικών με την αναζήτηση αποτελεσμάτων





# Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας

## Google Scholar

### Πληροφορίες Λήμματος

- Τίτλος
- Όνομα συγγραφέα/ων
- Έτος δημοσίευσης
- Περιοδικό
- Εκδότης
- Μορφή εμφάνισης (doc, pdf, html)
- Αριθμός αναφορών
- Εκδοχές της ίδιας πηγής προέλευσης

# Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας

## Google Scholar

## Απλή Αναζήτηση

The screenshot shows the Google Scholar search results for the query "multiple sclerosis". The search bar at the top shows the query and the search button. Below the search bar, the results are displayed in a list format. The first result is "Differential diagnosis of suspected multiple sclerosis: a consensus approach" by DH Miller, BG Weinschenker, and M Filippi, published in *sclerosis* in 2008. The second result is "Interleukin-17 mRNA expression in blood and CSF mononuclear cells is augmented in multiple sclerosis" by D Matusevicius, P Kivisäkk, B He, and N Kostulas, published in *sclerosis* in 1999. The third result is "Fatigue and multiple sclerosis: evidence-based management strategies for fatigue in multiple sclerosis" from the Multiple Sclerosis Council for Clinical Practice, published in 1998. The fourth result is "The Multiple Sclerosis Functional Composite measure (MSFC): an integrated approach to MS clinical outcome assessment" by JS Fischer, RA Rudick, and GR Cutter, published in *sclerosis* in 1999. The fifth result is "Effects of a short-term exercise training program on aerobic fitness, fatigue, health perception and activity level of subjects with multiple sclerosis" by S Mostert and J Kesselring, published in *Multiple sclerosis* in 2002.

Annotations on the screenshot include:

- A red circle around the search results count: "About 1,120,000 results (0.15 sec)".
- A red circle around the first article title: "Differential diagnosis of suspected multiple sclerosis: a consensus approach".
- A red circle around the authors' names: "DH Miller, BG Weinschenker, M Filippi".
- A red circle around the journal name: "sclerosis".
- A red circle around the "Sort by relevance" option in the left sidebar.
- A red circle around the "include patents" and "include citations" checkboxes in the left sidebar.
- A blue box on the right side of the page contains a list of filters: "Articles", "Case law", "My library", "include patents", "include citations", "My Citations", "Create alert", "Metrics", "Settings", and "Advanced search".
- Arrows point from the first article title to the text "[PDF] from yimg.com".
- Arrows point from the authors' names to the text "Συγγραφείς, περιοδικό, έτος δημοσίευσης, εκδότης".
- An arrow points from the title of the third article to the text "Τίτλος άρθρου".
- An arrow points from the title of the fifth article to the text "Effects of a short-term exercise training program on aerobic fitness, fatigue, health perception and activity level of subjects with multiple sclerosis".

# Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας

## Google Scholar

### Με συνδυασμό όρων

Web Images More...

kpantavou@compgen.org



"multiple sclerosis" AND gene



Scholar

About 615,000 results (0.12 sec)

My Citations

0

Articles

**Risk alleles for multiple sclerosis identified by a genomewide study**

G Fingerprinting - N engl J med, 2007 - Mass Medical Soc

Case law

A transmission disequilibrium test of 334,923 single-nucleotide polymorphisms (SNPs) in 931 family trios revealed 49 SNPs having an association with **multiple sclerosis** ( $P < 1 \times 10^{-4}$ ); of these SNPs, 38 were selected for the second-stage analysis. A comparison between the 931 ...

My library

Cited by 1277 Related articles All 4 versions Cite Save

Any time

**Genetic risk and a primary role for cell-mediated immune mechanisms in multiple sclerosis** [HTML] from nih.gov

Since 2016

International **Multiple Sclerosis** Genetics Consortium... - Nature, 2011 - nature.com

Since 2015

**Multiple sclerosis** is a common disease of the central nervous system in which the interplay between inflammatory and neurodegenerative processes typically results in intermittent neurological disturbance followed by progressive accumulation of disability 1. ...

Since 2012

Custom range...

Cited by 1065 Related articles All 39 versions Cite Save

-

Search

**Gene-microarray analysis of multiple sclerosis lesions yields new targets validated in autoimmune encephalomyelitis** [HTML] from nature.com

C Lock, G Hermans, R Pedotti, A Brendolan... - Nature medicine, 2002 - nature.com

Microarray analysis of **multiple sclerosis** (MS) lesions obtained at autopsy revealed increased transcripts of **genes** encoding inflammatory cytokines, particularly interleukin-6 and-17, interferon-gamma and associated downstream pathways. Comparison of two ...

Cited by 1328 Related articles All 11 versions Cite Save

Sort by relevance

Sort by date

include patents

include citations

Create alert

**HLA-DR2 dose effect on susceptibility to multiple sclerosis and influence on disease course** [HTML] from sciencedirect.com

LF Barcellos, JR Oksenberg, AB Begovich... - The American Journal of ..., 2003 - Elsevier

... The association of **multiple sclerosis** (MS [MIM 126200]) with the human leukocyte antigen (HLA) region has been ... Identification of the true predisposing **gene** or **genes** has been made more complex by ... LD across the HLA region and by the presence of >240 **genes** within this ...

Cited by 226 Related articles All 9 versions Cite Save

**A genome screen in multiple sclerosis reveals susceptibility loci on chromosome 6p21 and 17q22.**

S Sawcer, HB Jones, R Feakes, J Gray, N Smaldon... - Nature ..., 1996 - europepmc.org

... MHC) association is the only consistently observed feature in the genetics of **multiple sclerosis**.

# Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας

## Google Scholar

### Με συνδυασμό όρων

Web Images More... kpantavou@compgen.org

Google "multiple sclerosis" AND "CD24 gene"

Scholar About 140 results (0.12 sec) My Citations 0

<p>Articles</p> <p>Case law</p> <p>My library</p> <p>Any time</p> <p>Since 2016</p> <p>Since 2015</p> <p>Since 2012</p> <p>Custom range...</p> <p>Sort by relevance</p> <p>Sort by date</p> <p><input checked="" type="checkbox"/> include patents</p> <p><input checked="" type="checkbox"/> include citations</p> <p><input checked="" type="checkbox"/> Create alert</p>	<p><a href="#">[HTML] CD24 is a genetic modifier for risk and progression of multiple sclerosis</a>          Q Zhou, K Rammohan, S Lin... - Proceedings of the ..., 2003 - National Acad Sciences          ... Patients with definite MS, as diagnosed by KR at the Ohio State University <b>Multiple Sclerosis</b> Center according to the McDonald criteria (25), were offered the opportunity to participate ... PCR Amplification and Restriction Fragment Length Polymorphism Analysis of the <b>CD24 Gene</b>. ...          Cited by 102 Related articles All 11 versions Web of Science: 65 Cite Save</p> <p><a href="#">[HTML] CD24 gene polymorphism is associated with the disease progression and susceptibility to multiple sclerosis in the Iranian population</a>          M Ronaghi, S Vallian, M Etemadifar - Psychiatry research, 2009 - Elsevier          The impact of a single nucleotide polymorphism (SNP) in the <b>CD24 gene</b> on the risk and progression of <b>multiple sclerosis</b> (MS) was investigated in the Iranian population. Our data revealed that the susceptibility and the progression of MS in individuals with the CD24VV ...          Cited by 23 Related articles All 7 versions Web of Science: 15 Cite Save</p> <p><a href="#">CD24 V/V is an allele associated with the risk of developing multiple sclerosis in the Spanish population</a>          D Otaegui, A Saenz, P Camano, L Blazquez... - ... <b>sclerosis</b>, 2006 - msj.sagepub.com          ... The allele C in the <b>CD24 gene</b> has been related to <b>multiple sclerosis</b> (MS). In this work we check this single nucleotide polymorphism (SNP) in a population of 135 patients and 285 controls. Our results confirm the association ...          Cited by 41 Related articles All 9 versions Web of Science: 28 Cite Save</p> <p><a href="#">[HTML] CD24 Ala/Val polymorphism and multiple sclerosis</a>          A Goris, M Maranian, A Walton, TW Yeo, M Ban... - Journal of ..., 2006 - Elsevier          ... progression of <b>multiple sclerosis</b> was recently reported. We typed this coding polymorphism in a combined cohort of 1180 cases and 1168 unrelated and family-based controls from Belgium and the UK, but were unable to confirm either association. Since the <b>CD24 gene</b> is part ...          Cited by 27 Related articles All 8 versions Web of Science: 17 Cite Save</p> <p><a href="#">[HTML] Association of a CD24 gene polymorphism with susceptibility to systemic lupus erythematosus</a>          E Sánchez, AK Abelson, JM Sabio... - Arthritis &amp; ..., 2007 - Wiley Online Library          ... A recent study has identified a coding polymorphism of the <b>CD24 gene</b> (226C T, single-nucleotide</p>	<p><a href="#">[HTML] from pnas.org</a> Getit@Grifols</p> <p><a href="#">[HTML] from sciencedirect.com</a> Getit@Grifols</p> <p><a href="#">[PDF] from sagepub.com</a> Getit@Grifols</p> <p><a href="#">[HTML] from sciencedirect.com</a> Getit@Grifols</p> <p><a href="#">[HTML] from wiley.com</a></p>
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# Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας

## Google Scholar

### Σύνθετη αναζήτηση

The image displays two overlapping screenshots of the Google Scholar website. The top screenshot shows the main navigation menu with a red circle highlighting the 'Advanced search' option. The bottom screenshot shows the 'Find articles' search interface with various filters and input fields.

**Navigation Menu:**

- My library
- My Citations
- Alerts
- More ▾
- Metrics
- Settings
- Advanced search

**Find articles interface:**

Find articles

with **all** of the words

with the **exact phrase**

with **at least one** of the words

**without** the words

where my words occur **anywhere in the article** ▾

Return articles **authored by**   
e.g., "PJ Hayes" or McCarthy

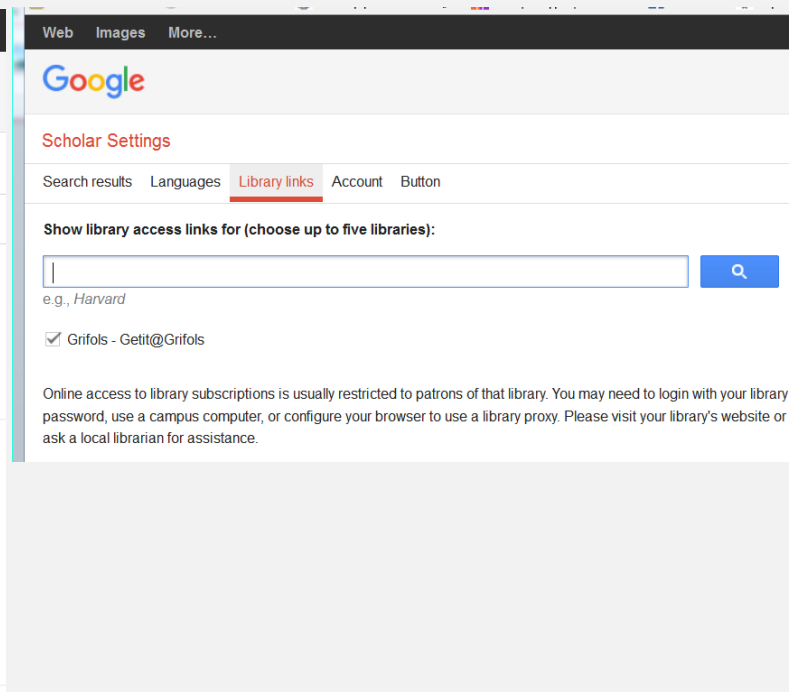
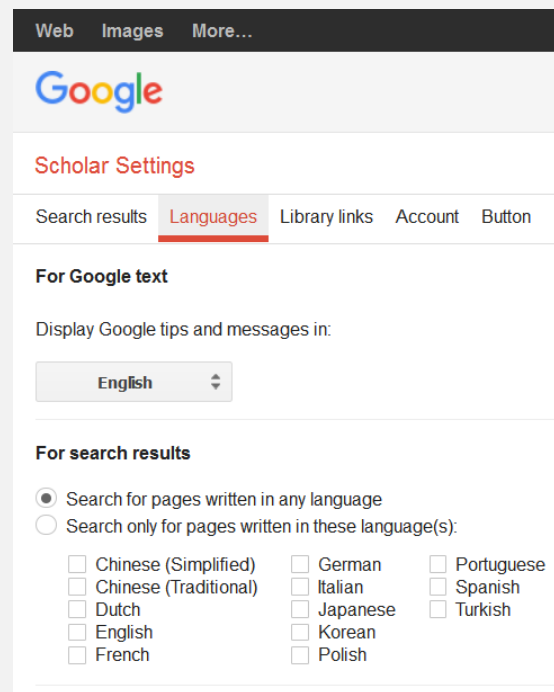
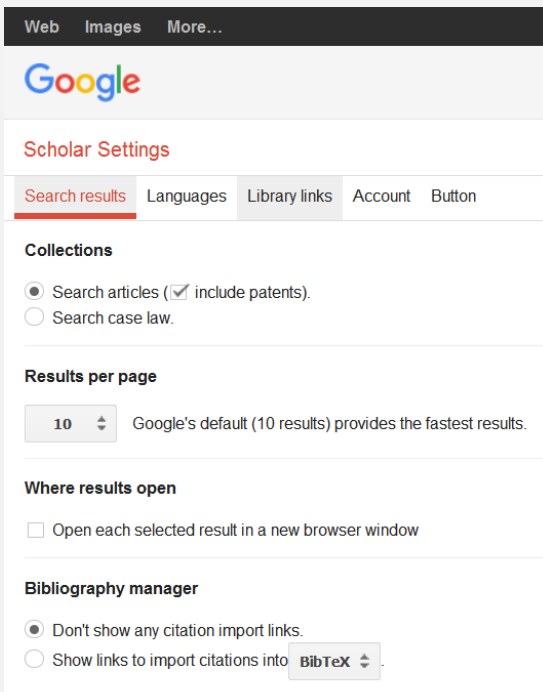
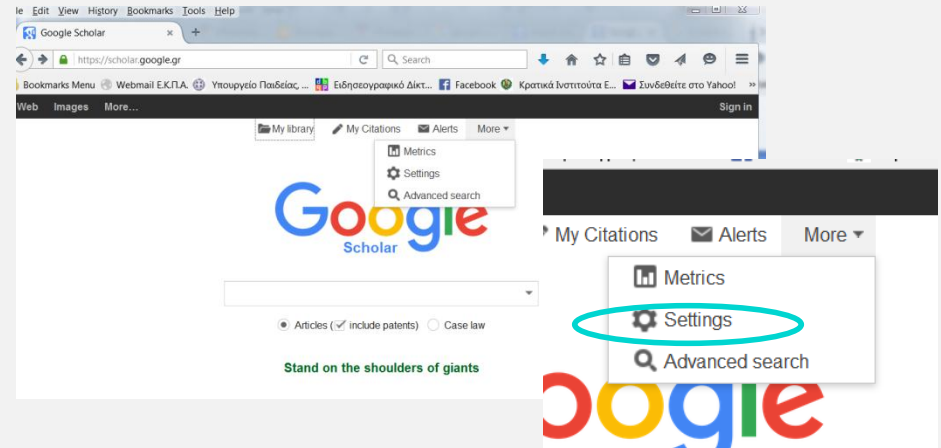
Return articles **published in**   
e.g., J Biol Chem or Nature

Return articles **dated** between  —   
e.g., 1996

# Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας

## Google Scholar

### Εξατομικευμένες Προτιμήσεις



# Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας

## Google Scholar

### Προσωπικό προφίλ

Δημιουργία λογαριασμού με

- όνομα
- διεύθυνση ηλεκτρονικού ταχυδρομείου
- επιστημονικά πεδία ενδιαφέροντος


Με αναζήτηση του ονόματος εντοπίζεται

- επιστημονική δραστηριότητα
- αναφορές/ετεροαναφορές
- στατιστικά στοιχεία αναφορικά με τις παραπομπές

1. Σύνδεση στο scholar.google.com
2. Κλικ στο σύνδεσμο "Αναφορές μου« (My citation) στο πάνω μέρος της σελίδας
3. Ρύθμιση λογαριασμού
4. Προσθήκη δημοσιεύσεων
5. Προαιρετικά κοινοποίηση του προφίλ

# Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας

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Associate Professor, University of Thessaly  
Bioinformatics, Membrane Proteins, Biostatistics, Genetic Epidemiology, Meta-analysis  
Verified email at dib.uth.gr - [Homepage](#)

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## Google Scholar

Citation indices	All	Since 2011
Citations	2618	1680
h-index	29	25
i10-index	52	46



**Co-authors** [View all...](#)

- [STAVROS HAMODRAKAS](#)
- [Georgios K Nikolopoulos](#)
- [Stefanos Bonovas](#)
- [Niki Dimou](#)
- [Zoi I. Litou](#)
- [Konstantinos Tsirigos](#)
- [Chrysoula Nikolaou](#)
- [Stylianos Chatzipanagiotou](#)
- [Georgios A. Pavlopoulos](#)
- [Reinhard Schneider](#)
- [Panagiotis Papasaikas](#)
- [Margarita Theodoropoulou](#)
- [Nikolaos G. Sgourakis](#)
- [Vasilis J. Promponas](#)
- [Evangelia Petsalaki](#)
- [Jan Aerts](#)
- [Charalampos Moschopoulos](#)

Title	Cited by	Year
<b>PRED-TMBB: a web server for predicting the topology of <math>\beta</math>-barrel outer membrane proteins</b> PG Bagos, TD Liakopoulos, IC Spyropoulos, SJ Hamodrakas Nucleic acids research 32 (suppl 2), W400-W404	259	2004
<b>A Hidden Markov Model method, capable of predicting and discriminating <math>\beta</math>-barrel outer membrane proteins</b> PG Bagos, TD Liakopoulos, IC Spyropoulos, SJ Hamodrakas BMC bioinformatics 5 (1), 1	158	2004
<b>Cytokine gene polymorphisms in periodontal disease: a meta-analysis of 53 studies including 4178 cases and 4590 controls</b> GK Nikolopoulos, NL Dimou, SJ Hamodrakas, PG Bagos Journal of clinical periodontology 35 (9), 754-767	132	2008
<b>Using graph theory to analyze biological networks</b> GA Pavlopoulos, M Secrier, CN Moschopoulos, TG Soldatos, S Kossida, ... BioData mining 4 (1), 1	127	2011
<b>The variability and accurate assessment of microinflammation in haemodialysis patients</b> G Tspiranlis, P Bagos, D Ioannou, A Bleta, I Marinou, A Lagouranis, ... Nephrology Dialysis Transplantation 19 (1), 150-157	103	2004
<b>Evaluation of methods for predicting the topology of <math>\beta</math>-barrel outer membrane proteins and a consensus prediction method</b> PG Bagos, TD Liakopoulos, SJ Hamodrakas BMC bioinformatics 6 (1), 1	101	2005

## h-index

Ο μέγιστος αριθμός h τέτοιος ώστε h δημοσιεύσεις να έχουν τουλάχιστον h αναφορές

## i10-index

Ο αριθμός των δημοσιεύσεων που έχει τουλάχιστον 10 αναφορές



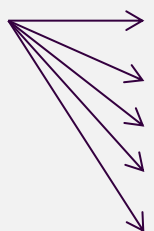
# Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας

## Google Scholar

### Προσωπική βιβλιοθήκη

The screenshot shows the Google Scholar interface. At the top, the search bar contains 'multiple sclerosis' and the search button is visible. The results show 'About 1,270,000 results (0.03 sec)'. On the left, there is a sidebar with navigation options: 'Articles', 'Case law', 'My library' (circled in red), 'Any time' (with sub-options: 'Since 2016', 'Since 2015', 'Since 2012', 'Custom range...'), 'Sort by relevance', 'Sort by date', 'include patents' (checked), 'include citations' (checked), and 'Create alert' (checked). The main results area displays several articles. The first article is 'Differential diagnosis of suspected multiple sclerosis: a consensus approach' by DH Miller, BG Weinshenker, and M Filippi, published in 2008. Its 'Cite' and 'Save' buttons are circled in red, with a red arrow pointing to them from the right. The second article is 'Interleukin-17 mRNA expression in blood and CSF mononuclear cells is augmented in multiple sclerosis' by D Matusevicius, P Kivisakk, B He, and N Kostulas, published in 1999. The third article is '[CITATION] Fatigue and multiple sclerosis: evidence-based management strategies for fatigue in multiple sclerosis' by the Multiple Sclerosis Council for Clinical Practice, published in 1998. The fourth article is 'The Multiple Sclerosis Functional Composite measure (MSFC): an integrated approach to MS clinical outcome assessment' by JS Fischer, RA Rudick, and GR Cutter, published in 1999. The fifth article is 'Effects of a short-term exercise training program on aerobic fitness, fatigue, health perception and activity level of subjects with multiple sclerosis' by S Mostert, J Kesselring, published in 2002. Each article entry includes the title, authors, year, journal, abstract snippet, and citation information.

# Βιβλιογραφικές Βάσεις

- Βάσεις δεδομένων με βιβλιογραφικές εγγραφές
- Οργανωμένες ψηφιακές συλλογές αναφορών σε δημοσιευμένη βιβλιογραφία 
  - άρθρα σε περιοδικά
  - πρακτικά συνεδρίων
  - αναφορές
  - ευρεσιτεχνίες
  - βιβλία κ.λ.π.
- Παρέχουν τη δυνατότητα
  - ✓ Απλής και πλήρους αναζήτησης βιβλιογραφίας και βιβλιογραφικών αναφορών
  - ✓ Σύνδεση με το πλήρες κείμενο των άρθρων αν υπάρχει συνδρομή
  - ✓ Δημιουργίας λίστας επιλεγμένων άρθρων και διαχείρισής της
  - ✓ Αποθήκευση και εξαγωγή των αποτελεσμάτων
  - ✓ Αποθήκευση της βιβλιογραφίας σε ειδικά προγράμματα διαχείρισής της (EndNote, ProCite, Reference Manager, Mendeley κ.τ.λ.)
- Περιέχουν
  - ✓ περιγραφές με τη μορφή των λέξεων-κλειδιών, όρων ταξινόμησης και περιλήψεις
  - ✓ πληροφορίες σχετικές με τα άρθρα αλλά όχι τα ίδια τα άρθρα
  - ✓ σύνδεσμο για την ανάκτηση του πλήρους κειμένου του άρθρου, αν είναι ελεύθερα διαθέσιμο

# Βιβλιογραφικές Βάσεις

## Κατηγορίες

- Θεματολογίας
  - ❑ Ευρείας κάλυψης επιστημονικών πεδίων
  - ❑ Εξειδικευμένες για συγκεκριμένο επιστημονικό πεδίο
- Προσβασιμότητας
  - ❑ Ελεύθερα προσβάσιμες
  - ❑ Προσβάσιμες μόνο σε χρήστες
    - ❖ Με συνδρομή
    - ❖ Χρήστες κάποιου δικτύου (π.χ. πανεπιστημίου, ερευνητικού ιδρύματος, νοσοκομείου)

# Βιβλιογραφικές Βάσεις

**Βιβλιοθήκη & Κέντρο Πληροφόρησης**  
Πανεπιστημίου Θεσσαλίας
| [Βοήθεια](#) | [Επικοινωνία](#) | [English edition](#) |

Γρήγορη μετάβαση σε:

[Αρχική σελίδα](#) > [Αναζήτηση σε Πληροφοριακές Πηγές](#)
[Login](#) » |

| [Πληροφορίες για τη Βιβλιοθήκη](#) | [Υπηρεσίες](#) | [Αναζήτηση σε Πληροφοριακές Πηγές](#) | [Intranet Βιβλιοθήκης](#) |

## Βάσεις Δεδομένων

Η αναζήτηση και ανάκτηση βιβλιογραφικών αναφορών ή/και περιλήψεων επιστημονικών έργων (π.χ. άρθρα περιοδικών, βιβλία κλπ.) είναι εφικτή μέσω των **βιβλιογραφικών βάσεων δεδομένων**, ενώ από τις **βάσεις δεδομένων πλήρους κειμένου** παρέχεται η δυνατότητα πρόσβασης στο πλήρες κείμενο των άρθρων περιοδικών εκδόσεων.

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Παρακάτω παρουσιάζεται **αλφαβητικός κατάλογος** των δια-δικτυακών/online βάσεων δεδομένων, στις οποίες υπάρχει συνδρομή, είτε απευθείας από τη Βιβλιοθήκη του Πανεπιστημίου Θεσσαλίας είτε μέσω της **ΣΕΑΒ - Healink**. Επίσης, στον κατάλογο περιλαμβάνονται και βάσεις δεδομένων στις οποίες η πρόσβαση είναι ελεύθερη (free).

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<b>Academic Search Complete</b> <input checked="" type="checkbox"/> Πρόσβαση μέσω: EBSCOhost <input checked="" type="checkbox"/> Αν' ευθείας αναζήτηση βάσης	<p><b>Βάση δεδομένων πλήρους κειμένου</b>            Προσφέρει άμεση πρόσβαση στο πλήρες κείμενο (full-text) περισσότερων από 7.000 και στα περιεχόμενα/περιλήψεις άρθρων περισσότερων από 11.000 περιοδικών εκδόσεων. Επίσης, στη βάση δεδομένων συμπεριλαμβάνεται συλλογή χαρτών και φωτογραφιών με δυνατότητα άμεση πρόσβασης. Η κάλυψη της βάσης δεδομένων για ορισμένα είδη βιβλιογραφίας εκτείνεται από το 1887 έως σήμερα, ενώ η πρόσβαση είναι δυνατή για απεριόριστους ταυτόχρονους χρήστες. [Η πρόσβαση στους τίτλους των περιοδικών είναι δυνατή και μέσω του <a href="#">Καταλόγου Περιοδικών Εκδόσεων</a> »]</p>	<p><i>Ευρεία κάλυψη επιστημονικών πεδίων</i></p> <p style="text-align: right;">Οδηγός Πρόσβαση <span style="float: right;">  &gt; &lt;  </span></p>
<input checked="" type="checkbox"/> <b>Agricola</b>	<p><b>Βιβλιογραφική βάση δεδομένων</b>            AGRICOLA (AGRICultural OnLine Access) της National Agricultural Library (NAL)</p>	<p><i>Επιστήμες Γεωπονίας</i></p>

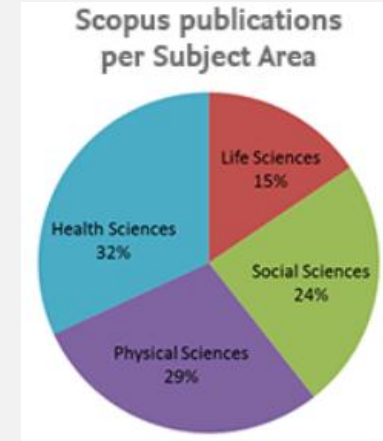
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Σημαντικότερες βάσεις

- Ευρείας κάλυψης
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  - ❑ ISI Web of Science
- Εξειδικευμένες
  - ❑ Pubmed (Ιατρικές επιστήμες)

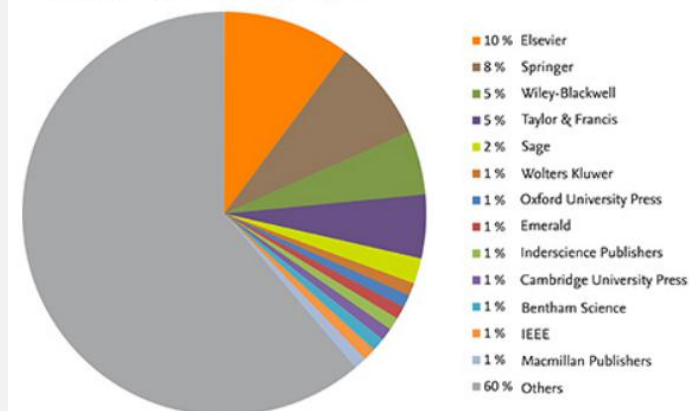
# Βιβλιογραφικές Βάσεις

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- Ευρείας κάλυψης επιστημονικών πεδίων
  - ✓ Επιστήμες ζωής
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  - ✓ Κοινωνικές και ανθρωπιστικές επιστήμες
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  - ✓ 60 εκατ. καταχωρήσεις από επιστημονικά περιοδικά
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  - ✓ 5.000 εκδοτικούς οίκους
  - ✓ >113.000 βιβλία
  - ✓ 7.2 εκατ. δημοσιεύσεις σε συνέδρια
  - ✓ 27 εκατ. ευρεσιτεχνίες
- Πρόσβαση μόνο από χρήστες

Publishers indexed in Scopus



# Βιβλιογραφικές Βάσεις



## Scopus

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- η δημιουργία προσωπικού προφίλ των συγγραφέων
  - προσωπικά στοιχεία
  - αριθμό δημοσιεύσεων και αναφορών
  - βιβλιογραφικά δεδομένα και πηγές
- η ενεργοποίηση ειδοποιήσεων που επιτρέπει στους εγγεγραμμένους χρήστες να παρακολουθούν αλλαγές σε ένα προφίλ και τον εύκολο υπολογισμό του δείκτη h

The screenshot displays the Scopus search interface with several red arrows highlighting key features:

- Top Navigation:** A red arrow points to the "Affiliation search" tab in the top navigation bar.
- Search Fields:** A red arrow points to the "Search for Affiliation..." input field.
- Subject Areas:** A red arrow points to the "Subject Areas" filter section, which includes checkboxes for Life Sciences, Health Sciences, Physical Sciences, and Social Sciences & Humanities.
- Advanced Search:** A red arrow points to the "Advanced search" tab in the top navigation bar.
- Search Input:** A red arrow points to the "Search for..." input field in the advanced search section, which contains the example text "Eg., 'heart attack' AND stress".
- Search Fields:** A red arrow points to the "Article Title, Abstract, Keywords" dropdown menu.
- Filters:** A red arrow points to the "Date Range (inclusive)" filter, which is set to "Published All years to Present".
- Document Type:** A red arrow points to the "Document Type" filter, which is set to "ALL".
- Subject Areas (Advanced):** A red arrow points to the "Subject Areas" filter in the advanced search section, which includes checkboxes for Life Sciences, Health Sciences, Physical Sciences, and Social Sciences & Humanities.
- Reset Form:** A red arrow points to the "Reset form" button at the bottom of the search interface.

Scopus

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Search for... *Eg., "heart attack" AND stress* | Article Title, Abstract, Keywords

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 Published *All years* to *Present*  
 Added to Scopus in the last *7* days

**Document Type**  
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**Subject Areas**  
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 Physical Sciences (> 7,200 titles . .)  
 Social Sciences & Humanities (> 5,300 titles . .)

- Article Title, Abstract, Keywords
- All Fields
- Article Title, Abstract, Keywords
- Authors
- First Author
- Source Title
- Article Title
- Abstract
- Keywords
- Affiliation
- Affiliation Name
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## Αναζήτηση όρων

Scopus

The screenshot displays the Scopus search interface. At the top, there are navigation tabs: Search, Alerts, Lists, and My Scopus. Below the tabs is a banner for a webinar. The main search area includes a search bar with the text "Search for..." and two example queries: "TITLE-ABS-KEY(\"multiple sclerosis\")" and "TITLE-ABS-KEY(\"multiple sclerosis\") AND gene". Below the search bar is a search button and a link to "Add Author name / Affiliation".

A dropdown menu is open, showing a list of operators and codes. The operators listed are AND, OR, AND NOT, PRE/, and W/. The codes listed are ABS, AF-ID, AFFIL, AFFILCITY, AFFILCOUNTRY, AFFILORG, and ALL. A red arrow points to the "OR" operator in the dropdown menu. A red oval highlights the "Advanced search examples" section, which contains the following text:

```

Advanced search examples:
ALL("heart attack") AND AUTHOR-NAME(smith)
TITLE-ABS-KEY( *somatic complaint wom?n ) AND PUBYEAR AFT 1993
SRCTITLE("field ornith") AND VOLUME(75) AND ISSUE(1) AND PAGES(53-66)

```

To the right of the dropdown menu, there is a section titled "Code: OR" with the name "Or". Below this, there is a description: "Use OR when your results must include one or more of the terms (such as synonyms, alternate spellings, or abbreviations). Documents that contain any of the words will be found." Below the description, there is an example: "For Example: Entering 'kidney OR renal' will find documents that contain either 'kidney' or 'renal'."

# Βιβλιογραφικές Βάσεις

Αναζήτηση όρων

Scopus

Search Alerts Lists My Scopus

TITLE-ABS-KEY ("multiple sclerosis") Edit Save Set alert Set feed

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**Year**

- 2016 (849)
- 2015 (5,019)
- 2014 (5,319)
- 2013 (5,418)
- 2012 (4,913)

**Document Type**

- Article (54,428)
- Review (14,873)
- Letter (3,511)
- Conference Paper (3,333)
- Note (2,412)

**Source Title**

Keyword

Affiliation

Country/Territory

Source Type

Language

Limit to Exclude

Export refine

**Author Name**

- Filippi, M. (624)
- Comi, G. (618)
- Miller, D.H. (510)
- Polman, C.H. (458)
- Hartung, H.P. (457)

**Subject Area**

- Medicine (65,596)
- Neuroscience (27,574)
- Biochemistry, Genetics and Molecular Biology (11,720)
- Immunology and Microbiology (9,988)
- Pharmacology, (6,191)

<input type="checkbox"/> 1	Brain image segmentation using semi-supervised clustering	Saha, S., Alok, A.K., Ekbal, A.	2016	Expert Systems with Applications 52, pp. 50-63	1 Cited by
Full Text Show abstract Related documents					
<input type="checkbox"/> 2	Development of a novel aptasensor using jellyfish collagen as matrix and thrombin detection in blood samples obtained from patients with various neurodisease	Derkus, B., Arslan, Y.E., Bayrac, A.T., (...), Emregul, K.C., Emregul, E.	2016	Sensors and Actuators, B: Chemical	0
Full Text					
<input type="checkbox"/> 3	Sphingosine kinase 2 deficient mice exhibit reduced experimental autoimmune encephalomyelitis: Resistance to FTY720 but not ST-968 treatments	Imeri, F., Schwalm, S., Lyck, R., (...), Pfeilschifter, J., Huwiler, A.	2016	Neuropharmacology	0
Full Text					
<input type="checkbox"/> 4	Work-related problems in multiple sclerosis: A literature review on its associates and determinants	Raggi, A., Covelli, V., Schiavolin, S., (...), Leonardi, M., Willems, M.	2016	Disability and Rehabilitation	0
Full Text					
<input type="checkbox"/> 5	The effects of fatigue, depression and the level of disability on the health-related quality of life of glatiramer acetate-treated relapsing-remitting patients with multiple sclerosis in Hungary	Fricska-Nagy, Z., Füvesi, J., Rózsa, C., (...), Vécsei, L., Bencsik, K.	2016	Multiple Sclerosis and Related Disorders	0
Full Text					
<input type="checkbox"/> 6	Multiple sclerosis relapses are associated with increased fatigue and reduced health-related quality of life - A post hoc analysis of the TEMSO and TOWER studies	Mäurer, M., Comi, G., Freedman, M.S., (...), Bozzi, S., O'Connor, P.W.	2016	Multiple Sclerosis and Related Disorders	0
Full Text					

# Βιβλιογραφικές Βάσεις

Scopus

Αναζήτηση όρων

TITLE-ABS-KEY ("multiple sclerosis") AND gene [Edit](#) | [Save](#) | [Set alert](#) | [Set feed](#)

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**Refine**

**Year**

- 2016 (260)
- 2015 (1,510)
- 2014 (1,553)
- 2013 (1,788)
- 2012 (1,636)

**Author Name**

- Steinman, L. (175)
- Hillert, J. (162)
- Oksenberg, J.R. (161)
- Olsson, T. (158)
- Lassmann, H. (151)

**Subject Area**

- Medicine (12,961)
- Neuroscience (7,065)
- Immunology and Microbiology (5,897)
- Biochemistry, Genetics and Molecular Biology (5,792)
- Pharmacology, (2,349)


<input type="checkbox"/>	1	Spingosine kinase 2 deficient mice exhibit reduced experimental autoimmune encephalomyelitis: Resistance to FTY720 but not ST-968 treatments	Imeri, F., Schwalm, S., Lyck, R., (...), Pfeilschifter, J., Huwiler, A.	2016	Neuropharmacology 105, pp. 341-350	0 Cited by
			<a href="#">Full Text</a>	<a href="#">Show abstract</a>	<a href="#">Related documents</a>	
<input type="checkbox"/>	2	Type 1 diabetes and susceptibility to multiple sclerosis: What is the truth?	Mormile, R.	2016	Multiple Sclerosis and Related Disorders	0
			<a href="#">Full Text</a>			
<input type="checkbox"/>	3	Sequencing analysis of the human glucocorticoid receptor (NR3C1) gene in multiple sclerosis patients	Kassi, E., Semaniakou, A., Sertedaki, A., (...), Chrousos, G.P., Moutsatsou, P.	2016	Journal of the Neurological Sciences	0
			<a href="#">Full Text</a>			
<input type="checkbox"/>	4	Association of IL4 and IL4R polymorphisms with multiple sclerosis susceptibility in Caucasian population: A meta-analysis	Zhang, Z., Wang, L., Sun, X., Zhang, L., Lu, L.	2016	Journal of the Neurological Sciences	0
			<a href="#">Full Text</a>			
<input type="checkbox"/>	5	Vitamin D receptor biochemical and genetic profiling and HLA-class II genotyping among Lebanese with multiple sclerosis - A pilot study	Yamout, B., Karaky, N.M., Mahfouz, R.A.R., (...), Hoteit, R., Daher, R.T.	2016	Journal of Neuroimmunology	0
			<a href="#">Full Text</a>			
<input type="checkbox"/>	6	Increased occurrence of anti-AQP4 seropositivity and unique HLA Class II associations with neuromyelitis optica (NMO), among Muslim Arabs in Israel	Brill, L., Mandel, M., Karussis, D., (...), Israel, S., Vaknin-Dembinsky, A.	2016	Journal of Neuroimmunology	0
			<a href="#">Full Text</a>			

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Neuropharmacology

Volume 105, 1 June 2016, Pages 341-350

---

## Sphingosine kinase 2 deficient mice exhibit reduced experimental autoimmune encephalomyelitis: Resistance to FTY720 but not ST-968 treatments (Article)

Imeri, F.<sup>a</sup>, Schwalm, S.<sup>b</sup>, Lyck, R.<sup>c</sup>, Zivkovic, A.<sup>d</sup>, Stark, H.<sup>d</sup>, Engelhardt, B.<sup>c</sup>, Pfeilschifter, J.<sup>b</sup>, Huwiler, A.<sup>a</sup>

<sup>a</sup> Institute of Pharmacology, University of Bern, Inselspital INO-F, Bern, Switzerland  
<sup>b</sup> Pharmazentrum Frankfurt/ZAFES, University Hospital, Goethe University Frankfurt Am Main, Germany  
<sup>c</sup> Theodor-Kocher Institute, University of Bern, Freiestrasse 1, Bern, Switzerland

[View additional affiliations](#)

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### Abstract

The immunomodulatory drug FTY720 is presently approved for the treatment of relapsing-remitting **multiple sclerosis**. It is a prodrug that requires activation by sphingosine kinase 2 (SK-2) to induce T cell homing to secondary lymphoid tissue. In this study, we have investigated the role of SK-2 in experimental autoimmune encephalomyelitis (EAE) in C57BL/6 mice. We show that SK-2 deficiency reduced clinical symptoms of EAE. Furthermore, in SK-2-deficient mice, the protective effect of FTY720 on EAE was abolished, while the non-prodrug FTY720-derivative ST-968 was still fully active. Protection was paralleled by reduced numbers of T-lymphocytes in blood and a reduced blood-brain-barrier leakage. This correlated with reduced mRNA expression of ICAM-1, VCAM-1, but enhanced expression of PECAM-1. A similar regulation of permeability and of PECAM-1 was seen in primary cultures of isolated mouse brain vascular endothelial cells and in a human immortalized cell line upon SK-2

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Novel oxazolo-oxazole derivatives of FTY720 reduce endothelial cell permeability, immune cell chemotaxis and symptoms of experimental autoimmune encephalomyelitis in mice

Imeri, F. , Fallegger, D. , Zivkovic, A.  
(2014) Neuropharmacology

FTY720 and two novel butterfly derivatives exert a general anti-inflammatory potential by reducing immune cell adhesion to endothelial cells through activation of S1P3 and phosphoinositide 3-kinase

Imeri, F. , Blanchard, O. , Jenni, A.  
(2015) Naunyn-Schmiedeberg's Archives of Pharmacology

Therapeutic potential of the modulation of sphingosine-1-phosphate receptors

Delgado, A. , Martínez-Cartró, M.  
(2016) Current Medicinal Chemistry

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bagos, p

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Article Title

Abstract

Keywords

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**Refine**

**Year**

2015 (6)  
 2014 (7)  
 2013 (10)  
 2012 (5)  
 2011 (8)

**Author Name**

Bagos, P.G. (69)  
 Hamodrakas, S.J. (33)  
 Nikolopoulos, G.K. (20)  
 Bagos, P. (17)  
 Liakopoulos, T.D. (14)

**Subject Area**

Medicine (54)  
 Biochemistry, Genetics and Molecular Biology (48)  
 Mathematics (17)  
 Computer Science (13)  
 Agricultural and Biological Sciences (5)

<input checked="" type="checkbox"/> 1	Meta-analysis in Stata using gllamm	Bagos, P.G.	2015	Research Synthesis Methods	0
<input type="button" value="Full Text"/>					
<input checked="" type="checkbox"/> 2	Emerging molecular networks common in ionizing radiation, immune and inflammatory responses by employing bioinformatics approaches	Georgakilas, A.G., Pavlopoulou, A., Louka, M., (...), Bagos, P.G., Michalopoulos, I.	2015	Cancer Letters	1
<input type="button" value="Full Text"/>					
<input checked="" type="checkbox"/> 3	Unraveling the mechanisms of extreme radioresistance in prokaryotes: Lessons from nature	Pavlopoulou, A., Savva, G.D., Louka, M., (...), Michalopoulos, I., Georgakilas, A.G.	2015	Mutation Research - Reviews in Mutation Research	0
<input type="button" value="Full Text"/>					
<input checked="" type="checkbox"/> 4	Polymorphisms of the CD24 gene are associated with risk of multiple sclerosis: A meta-analysis	Braliou, G.G., Pantavou, K.G., Kontou, P.I., Bagos, P.G.	2015	International Journal of Molecular Sciences	0
<a href="#">Open Access</a>					
<input type="button" value="Full Text"/>					
<input checked="" type="checkbox"/> 5	Key challenges for the creation and maintenance of specialist protein resources	Holliday, G.L., Bairoch, A., Bagos, P.G., (...), Babbitt, P.C., Bateman, A.	2015	Proteins: Structure, Function and Bioinformatics	1
<input type="button" value="Full Text"/>					
<input checked="" type="checkbox"/> 6	Creating a specialist protein resource network: A meeting report for the protein bioinformatics and community resources retreat	Babbitt, P.C., Bagos, P.G., Bairoch, A., (...)	2015	Database	0

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Document h-index : 26 Scopus does not have complete citation information for articles published before 1996. [View h-graph](#) ?



Documents

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	Total	0	19	62	69	69	139	126	174	187	247	213	275	229	33	1842	0	1842
1	Meta-analysis in Stata using gllamm															0		0
2	Emerging molecular networks common in ionizing radiation, im...													1		1		1
3	Unraveling the mechanisms of extreme radioresistance in prok...															0		0
4	Polymorphisms of the CD24 gene are associated with risk of m...															0		0
5	Key challenges for the creation and maintenance of specialis...													1		1		1
6	Creating a specialist protein resource network: A meeting re...															0		0
7	An approach for modelling multiple correlated outcomes in a ...												2	2	2	6		6
8	Erratum: Are sample sizes clear and justified in RCTs publis...															0		0
9	HMMpTM: Improving transmembrane protein topology prediction ...												1		1	2		2
10	Are sample sizes clear and justified in RCTs published in de...												5	4		9		9
11	The association between plasminogen activator inhibitor type...												3	3	1	7		7
12	The role of genetic polymorphisms of the Renin-Angiotensin S...													2		2		2

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  - ✓ Κοινωνικές και ανθρωπιστικές επιστήμες
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  - ✓ Arts & Humanities Citation Index από το 1975-σήμερα (ανθρωπιστικές επιστήμες και τέχνες)
  - ✓ Science Citation Index Expanded από το 1970-σήμερα (διεπιστημονική βάση)
  - ✓ Social Sciences Citation Index από το 1970-σήμερα (κοινωνικές επιστήμες)
- Πρόσβαση μόνο σε χρήστες



# Βιβλιογραφικές Βάσεις

## ISI Web of science



Παρέχει

- Δυνατότητα ταυτόχρονης αναζήτησης και στις τρεις βάσεις δεδομένων
- Βιβλιογραφικά στοιχεία από
  - ✓ 8.700 επιστημονικά περιοδικά
  - ✓ > Από 27 εκατ. άρθρα
- Δυνατότητα δημιουργίας προσωπικού προφίλ

# Βιβλιογραφικές Βάσεις

The image shows the Web of Science search interface. At the top, there are navigation links for 'Web of Science', 'Web of Science', 'Journal Citation Reports', 'Essential Science Indicators', and 'EndNote'. On the right, there are links for 'Sign In', 'Help', and 'English'. The main header features the 'WEB OF SCIENCE' logo and the 'THOMSON REUTERS' logo. Below the header, there is a search bar with the text 'Search' and a dropdown menu for 'All Databases'. To the right of the search bar are links for 'My Tools', 'Search History', and 'Marked List'. The main search area is titled 'Basic Search' and contains a search input field with the example text 'oil spill\* mediterranean', a 'Topic' dropdown menu, and a 'Search' button. Below the search input field is a link for '+ Add Another Field'. To the right of the search area is a link for 'Click here for tips to improve your search.' Below the search area, there is a section for 'TIMESPAN' with a dropdown menu for 'All years' and a range selection for 'From 1964 to 2013'. At the bottom of the 'TIMESPAN' section is a link for 'MORE SETTINGS'.

Web of Science™ Web of Science™ Journal Citation Reports® Essential Science Indicators™ EndNote® Sign In Help English

WEB OF SCIENCE™ THOMSON REUTERS™

Search All Databases My Tools Search History Marked List

Basic Search

Example: oil spill\* mediterranean Topic Search

+ Add Another Field

Click here for tips to improve your search.

TIMESPAN

All years

From 1964 to 2013

MORE SETTINGS

# Βιβλιογραφικές Βάσεις

The image shows a screenshot of the Web of Science search interface with several key features highlighted:

- Basic Search Interface:** The top section shows the search input fields with the example text "Example: oil spill\* mediterranean". The "AND" operator is selected. A "Search" button is visible.
- Database Selection:** A dropdown menu for "All Databases" is open, listing various databases. "Web of Science™ Core Collection" is circled in red.
- Search Options:** A dropdown menu for search options is open, listing "Topic", "Title", "Author", "Author Identifiers", "Group Author", "Editor", "Publication Name", and "DOI".
- Search Results:** The main search results area shows the "Web of Science Core Collection: Citation Indexes" section. The "Add Another Field" button is circled in red.
- Advanced Search Options:** A dropdown menu for search types is open, listing "Basic Search", "Author Search", "Cited Reference Search", "Structure Search", and "Advanced Search". "Advanced Search" is circled in red.
- Time Span Settings:** The "TIMESPAN" section is circled in red, showing "All years" selected, with "From 1964" and "to 2013" options.
- More Settings:** A "MORE SETTINGS" link is circled in red, pointing to a "Learn More" link in the database list.

# Βιβλιογραφικές Βάσεις

The screenshot shows the Web of Science search results page. The search term is 'oil spill', resulting in 8,655 items. The results are sorted by 'Publication Date -- newest to oldest'. The first three results are listed, each with a 'Full Text' and 'View Abstract' button circled in red. The 'Times Cited' for each result is 0, also circled in red. The 'Create Citation Report' button is also circled in red.

WEB OF SCIENCE™ THOMSON REUTERS™

Back to Search My Tools Search History Marked List

Results: 8,655

You searched for:  
TOPIC: (oil spill)  
Timespan=All years. Indexes=SCI-EXPANDED, SSI, A&HCI, CPCI-S, CPCI-SSH, BKD-S, BKD-SSH, CCR-EXPANDED, IC.  
...Less  
Create Alert

Refine Results

Search within results for...

Web of Science Categories  
ENVIRONMENTAL SCIENCES (3,508)

Sort by: Publication Date -- newest to oldest Page 1 of 865

Select Page Save to EndNote online Add to Marked List Create Citation Report

1. Using the TODIM-FSE method as a decision-making support methodology for oil spill response  
By: Passos, Aderson Campos; Teixeira, Marcelo Goulart; Garcia, Kátia Cristina; et al.  
COMPUTERS & ELECTRONICS IN RESEARCH Volume: 42 Pages: 40-48 Published: FEB 2014  
Full Text View Abstract Times Cited: 0 (from Web of Science Core Collection)
2. Cleanup of an Offshore Emulsion Spill, An Experimental Approach  
By: Zetti, A. Y.; Chaatzi, O.; Ghannam, M.  
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS Volume: 36 Issue: 2  
Pages: 121-130 Published: JAN 17 2014  
Full Text View Abstract Times Cited: 0 (from Web of Science Core Collection)
3. Modeling Subsurface Gas Release in Tropical and Shallow Waters: Comparison with Field Experiments off Brazil's Northeast Coast  
By: Leite, Fabiana S.; Silva, Marcus A.; Araujo, Moacyr; et al.  
HUMAN AND ECOLOGICAL RISK ASSESSMENT Volume: 20 Issue: 1 Pages: 150-173 Published: JAN 2 2014  
Full Text View Abstract Times Cited: 0 (from Web of Science Core Collection)

# Βιβλιογραφικές Βάσεις

## PubMed



- Διατηρείται από το National Center for Biotechnology Information (NCBI) της United States National Library of Medicine (NLM)
- Εξειδικευμένη βάση
  - ✓ Επιστημών υγείας
  - ✓ Βιοϊατρικών επιστημών
- Περιλαμβάνει >25 εκατ. αναφορές βιοϊατρικών βιβλιογραφιών από τη βάση MEDLINE
- Ελεύθερα διαθέσιμη ψηφιακή βιβλιογραφική βάση

# Βιβλιογραφικές Βάσεις

"multiple sclerosis" AND gene

"multiple sclerosis" AND ("CD24 gene" OR "CD24 polymorphism")

The screenshot shows the PubMed website interface. At the top, there is a navigation bar with 'NCBI Resources' and 'How To' menus, and a 'Sign in to NCBI' link. Below this is the 'PubMed.gov' header with the 'US National Library of Medicine' and 'National Institutes of Health' logos. A search bar is present with a dropdown menu set to 'PubMed' and a 'Search' button. The word 'Advanced' is circled in red, and a red arrow points from the search query above to it. Another red circle highlights the 'Help' link in the top right corner, with a red arrow pointing from the search query above to it. On the left side, there is a 'Recent' sidebar with a list of categories: Books, All, All Databases, Assembly, BioProject, BioSample, BioSystems, Books, ClinVar, Clone, Conserved Domains, dbGaP, dbVar, Epigenomics, EST, Gene, Genome, GEO DataSets, and GEO Profiles. The main content area features a 'PubMed' banner with a description of the database. Below the banner are sections for 'Using PubMed' (with links to Quick Start Guide, Full Text Articles, FAQs, Tutorials, and New and Noteworthy), 'PubMed Tools' (with links to Mobile, Single Citation Matcher, Batch Citation Matcher, Clinical Queries, and Topic-Specific Queries), and 'PubMed COMMONS' (with a featured comment). At the bottom, there is a footer with navigation links for 'GETTING STARTED', 'RESOURCES', 'POPULAR', 'FEATURED', and 'NCBI INFORMATION', along with a 'Write to the Help Desk' link.

# Βιβλιογραφικές Βάσεις

## Αναζήτηση όρων

NCBI Resources How To Sign in to NCBI

PubMed Home More Resources Help

PubMed Advanced Search Builder YouTube Tutorial

Use the builder below to create your search

[Edit](#) [Clear](#)

**Builder**

All Fields  [Show index list](#)

AND All Fields  [Show index list](#)

[Search](#) or [Add to history](#)

**History** [Download history](#) [Clear history](#)

Search	Add to builder	Query	Items found	Time
#6	<a href="#">Add</a>	Search "multiple sclerosis" AND ("CD24 gene" OR CD24 OR "CD24 polymorphism")	<a href="#">27</a>	14:58:01
#5	<a href="#">Add</a>	Search "multiple sclerosis" AND ("CD24 gene" OR CD24 "CD24 polymorphism")	<a href="#">3</a> X	14:57:44
#4	<a href="#">Add</a>	Search "multiple sclerosis" AND gene	<a href="#">6111</a>	14:54:37
#3	<a href="#">Add</a>	Search "multiple sclerosis" AND ("CD24 gene" OR "CD24 polymorphism")	<a href="#">12</a>	14:51:12
#2	<a href="#">Add</a>	Search "multiple sclerosis" AND ("CD24 gene" OR "CD24 polymorphisms")	<a href="#">11</a>	14:50:27
#1	<a href="#">Add</a>	Search "multiple sclerosis" AND ("CD24 gene" OR gene)	<a href="#">6111</a>	14:48:43

# Βιβλιογραφικές Βάσεις

## Αναζήτηση όρων

### Article types

- Addresses
- Autobiography
- Bibliography
- Biography
- Books and Documents
- Case Reports
- Classical Article
- Clinical Conference
- Clinical Study
- Clinical Trial
- Clinical Trial, Phase I
- Clinical Trial, Phase II
- Clinical Trial, Phase III
- Clinical Trial, Phase IV
- Comment
- Comparative Study
- Congresses
- Consensus Development

Show

NCBI Resources ▾ How To ▾ Sign in to NCBI

**PubMed** PubMed ▾

US National Library of Medicine  
National Institutes of Health Create RSS Create alert Advanced Help

Article types Summary ▾ 20 per page ▾ Sort by Most Recent ▾ Send to: ▾ **Filters:** [Manage Filters](#)

Clinical Trial  
Review  
Customize ...

**Text availability**  
Abstract  
Free full text  
Full text

**PubMed Commons**  
Reader comments  
Trending articles

**Publication dates**  
5 years  
10 years  
Custom range...

**Species**  
Humans  
Other Animals


[Clear all](#)  
[Show additional filters](#)

**Search results**

**Items: 1 to 20 of 6111** << First < Prev Page 1 of 306 Next > Last >>

1. [Critical Link Between Epigenetics and Transcription Factors in the Induction of Autoimmunity: a Comprehensive Review.](#)  
Wu H, Zhao M, Yoshimura A, Chang C, Lu Q.  
Clin Rev Allergy Immunol. 2016 Mar 11. [Epub ahead of print] Review.  
PMID: 26969025  
[Similar articles](#)
2. [Deficiency of IκB Kinase in Myeloid Cells Reduces Severity of Experimental Autoimmune Encephalomyelitis.](#)  
Hao W, Decker Y, Schnöder L, Schottek A, Li D, Menger MD, Fassbender K, Liu Y.  
Am J Pathol. 2016 Mar 8. pii: S0002-9440(16)00083-3. doi: 10.1016/j.ajpath.2016.01.004. [Epub ahead of print]  
PMID: 26968344  
[Similar articles](#)
3. [MerTK Is a Functional Regulator of Myelin Phagocytosis by Human Myeloid Cells.](#)  
Healy LM, Perron G, Won SY, Michell-Robinson MA, Rezk A, Ludwin SK, Moore CS, Hall JA, Bar-Or A, Antel JP.  
J Immunol. 2016 Mar 9. pii: 1502562. [Epub ahead of print]  
PMID: 26962228  
[Similar articles](#)
4. [Mirna-Mediated Macrophage Polarization and its Potential Role in the Regulation of Inflammatory Response.](#)  
Essandoh K, Li Y, Huo J, Fan GC.  
Shock. 2016 Mar 3. [Epub ahead of print]  
PMID: 26954942  
[Similar articles](#)

**New feature**  
Try the new Display Settings option - [Sort by Relevance](#)

**Results by year**  
  
[Download CSV](#)

**Titles with your search terms**  
Increased inflammasome related **gene** expression profile in PBMC may facilitate 1 [Mol Immunol. 2015]  
Metabolic **gene** expression changes in astrocytes in **Multiple Sclerosis** α [Brain Behav Immun. 2015]  
Anti-inflammatory genes associated with **multiple sclerosis**: a **gene** express [J Neuroimmunol. 2015]  
[See more...](#)

**Find related data**  
Database:



# Βιβλιογραφικές Βάσεις

## Αναζήτηση όρων

NCBI Resources How To Sign in to NCBI

PubMed "multiple sclerosis" AND gene Search

US National Library of Medicine National Institutes of Health Create RSS Create alert Advanced Help

Format

- Summary
- Summary (text)
- Abstract
- Abstract (text)
- MEDLINE
- XML
- PMID List

Items per page

- 5
- 10
- 20
- 50
- 100
- 200

Sort by

- Most Recent
- Relevance
- Publication Date
- First Author
- Last Author
- Journal
- Title

Article types: Summary, 20 per page, Sort by Most Recent

Text availability: Abstract, Free full text, Full text

PubMed Commons: Reader comments, Trending articles

Publication dates: 5 years, 10 years, Custom range...

Species: Humans, Other Animals

Clear all Show additional filters

**Search results**

Items: 1 to 20 of 6111

<< First < Prev Page 1 of 306 Next > Last >>

1. [Critical Link Between Epigenetics and Transcription Factors in the Induction of Autoimmunity: a Comprehensive Review.](#)  
Wu H, Zhao M, Yoshimura A, Chang C, Lu Q.  
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[Similar articles](#)


2. [Deficiency of IκB Kinase in Myeloid Cells Reduces Severity of Experimental Autoimmune Encephalomyelitis.](#)  
Hao W, Decker Y, Schnöder L, Schottek A, Li D, Menger MD, Fassbender K, Liu Y.  
Am J Pathol. 2016 Mar 8. pii: S0002-9440(16)00083-3. doi: 10.1016/j.ajpath.2016.01.004. [Epub ahead of print]  
PMID: 26968344  
[Similar articles](#)

3. [MerTK Is a Functional Regulator of Myelin Phagocytosis by Human Myeloid Cells.](#)  
Healy LM, Perron G, Won SY, Michell-Robinson MA, Rezk A, Ludwin SK, Moore CS, Hall JA, Bar-Or A, Antel JP.  
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[Similar articles](#)

4. [Mirna-Mediated Macrophage Polarization and its Potential Role in the Regulation of Inflammatory Response.](#)  
Essandoh K, Li Y, Huo J, Fan GC.  
Shock. 2016 Mar 3. [Epub ahead of print]  
PMID: 26954942  
[Similar articles](#)

Send to: Filters: [Manage Filters](#)

**New feature**  
Try the new Display Settings option - [Sort by Relevance](#)

**Results by year**  
  
[Download CSV](#)

**Titles with your search terms**  
Increased inflammasome related **gene** expression profile in PBMC may facilitate 1 [Mol Immunol. 2015]  
Metabolic **gene** expression changes in astrocytes in **Multiple Sclerosis**  $\alpha$  [Brain Behav Immun. 2015]  
Anti-inflammatory genes associated with **multiple sclerosis**: a **gene** express [J Neuroimmunol. 2015]  
[See more...](#)

**Find related data**  
Database: Select  
[Find items](#)

# Βιβλιογραφικές Βάσεις

## Αναζήτηση όρων

NCBI Resources How To

PubMed.gov

US National Library of Medicine  
National Institutes of Health

PubMed "multiple sclerosis" AND gene

Create RSS Create alert Advanced

Sign in to NCBI

Help

### Article types

- Clinical Trial
- Review
- Customize ...

### Text availability

- Abstract
- Free full text
- Full text

### PubMed Commons

- Reader comments
- Trending articles

### Publication dates

- 5 years
- 10 years
- Custom range...

### Species

- Humans
- Other Animals

Clear all

Show additional filters

Summary 20 per page **Sort by Most Recent**

Send to: Filters: Manage Filters

### Search results

Items: 1 to 20 of 6111

<< First < Prev Page 1 of 306 Next > Last >>

- 1. [Critical Link Between Epigenetics and Transcription Factors in the Induction of Autoimmunity: a Comprehensive Review.](#)

Wu H, Zhao M, Yoshimura A, Chang C, Lu Q. Clin Rev Allergy Immunol. 2016 Mar 11. [Epub ahead of print] Review.

PMID: 26969025

[Similar articles](#)

- 2. [Deficiency of IκB Kinase in Myeloid Cells Reduces Severity of Experimental Autoimmune Encephalomyelitis.](#)

Hao W, Decker Y, Schnöder L, Schottek A, Li D, Menger MD, Fassbender K, Liu Y. Am J Pathol. 2016 Mar 8. pii: S0002-9440(16)00083-3. doi: 10.1016/j.ajpath.2016.01.004. [Epub ahead of print]

PMID: 26968344

[Similar articles](#)

- 3. [MerTK Is a Functional Regulator of Myelin Phagocytosis by Human Myeloid Cells.](#)

Healy LM, Perron G, Won SY, Michell-Robinson MA, Rezk A, Ludwin SK, Moore CS, Hall JA, Bar-Or A, Antel JP.

J Immunol. 2016 Mar 9. pii: 1502562. [Epub ahead of print]

PMID: 26962228

[Similar articles](#)

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Essandoh K, Li Y, Huo J, Fan GC.

Shock. 2016 Mar 3. [Epub ahead of print]

PMID: 26954942

[Similar articles](#)

Format  
Summary (text)

Sort by  
Most Recent

Create File

### Choose Destination

- File
- Clipboard
- Collections
- E-mail
- Order
- My Bibliography
- Citation manager

### New feature

Try the new Display Settings option - [Sort by Relevance](#)

### Results by year



### Titles with your search terms

Increased inflammasome related **gene** expression profile in PBMC may facilitate 1 [Mol Immunol. 2015]

Metabolic **gene** expression changes in astrocytes in **Multiple Sclerosis** α [Brain Behav Immun. 2015]

Anti-inflammatory genes associated with **multiple sclerosis**: a **gene** express [J Neuroimmunol. 2015]

### Find related data

Database: Select

Find items

### Search details

"multiple sclerosis"[All Fields] AND ("genes"[MeSH Terms] OR "genes"[All Fields] OR "gene"[All Fields])

Search

### Recent Activity

- Turn Off Clear "multiple sclerosis" AND gene (6111 PubMed)
- PubMed Help - PubMed Help
- See more...
- "multiple sclerosis" AND gene AND (hasabstract(text)) (5826) PubMed
- "multiple sclerosis" AND ("CD24 gene" OR CD24 OR "CD24 PubMed)
- "multiple sclerosis" AND ("CD24 gene" OR CD24 AND "CD24 PubMed)

<sup>1</sup>Department of Dermatology, Second Xiangya Hospital, Hunan Key Laboratory of Medical Epigenomics, Central South University, Changsha, Hunan, China.  
<sup>2</sup>Department of Microbiology and Immunology, Keio University School of Medicine, Tokyo, Japan.  
<sup>3</sup>Division of Rheumatology, Allergy and Clinical Immunology, University of California at Davis, Davis, CA, USA.  
<sup>4</sup>Department of Dermatology, Second Xiangya Hospital, Hunan Key Laboratory of Medical Epigenomics, Central South University, Changsha, Hunan, China. qianlu5860@gmail.com.

Οθόνη ανάκτησης άρθρων

NCBI Resources How To Sign in to NCBI

PubMed.gov PubMed Search Help

US National Library of Medicine National Institutes of Health Advanced

Abstract

Clin Rev Allergy Immunol. 2016 Mar 11. [Epub ahead of print]

**Critical Link Between Epigenetics and Transcription Factors in the Induction of Autoimmunity: a Comprehensive Review.**

Wu H<sup>1</sup>, Zhao M<sup>1</sup>, Yoshimura A<sup>2</sup>, Chang C<sup>3</sup>, Lu Q<sup>4</sup>.

Author information

**Abstract**

Autoimmune diseases occur when the immune system loses tolerance to self-antigens, inducing inflammation and tissue damage. The pathogenesis of autoimmune diseases has not been elucidated. A growing mountain of evidence suggests the involvement of genetic and epigenetic factors in the development of these disorders. Genetic mapping has identified several candidate variants in autoimmune conditions. However, autoimmune diseases cannot be explained by genetic susceptibility alone. The fact that there is only 20 % of concordance for systemic lupus erythematosus (SLE) in homozygotic twins is an indication that epigenetics and environment may also play significant roles. Epigenetics refer to inheritable and potentially reversible changes in DNA and chromatin that regulate gene expression without altering the DNA sequence. The primary mechanisms of epigenetic regulation include DNA methylation, histone modification, and non-coding RNA-mediated regulation. The regulation on gene expression by epigenetics is similar to that by transcription factors (TFs), and the normal execution of biological event is controlled by a combination of epigenetic modifications and TFs. These two mechanisms share similar regulatory logistics and cooperate in part by influencing activity of the binding sites of target genes. In addition, the promoters of TFs have been found themselves to be modified by epigenetic regulators and TFs can also induce epigenetic changes. There is a two-way street in which interplay between epigenetic regulation and TFs plays a role in the pathogenesis of SLE, rheumatoid arthritis, type 1 diabetes, systemic sclerosis, and multiple sclerosis. Understanding of pathogenesis of these autoimmune diseases will help define potential targets for therapeutic strategies.

**KEYWORDS:** Autoimmune; DNA methylation; Epigenetics; Histone modifications; Transcription factors; lncRNAs; miRNAs

PMD: 26969025 [PubMed - as supplied by publisher]

Publication Types

LinkOut - more resources

Full Text Sources Springer

Send to: Full text links

SpringerLink FULL-TEXT ARTICLE

Save items Add to Favorites

Similar articles

Epigenetics in autoimmune connective tissue diseases. [Acta Biomed. 2014]

Review Epigenetic dynamics in immunity and autoimmunity. [Int J Biochem Cell Biol. 2015]

Review Epigenetics in autoimmune diseases: Pathogenesis and prospe [Autoimmun Rev. 2015]

Review Epigenetic control of autoimmune diseases: from bench to bec [Clin Immunol. 2015]

Review The critical importance of epigenetics in autoimmunity. [J Autoimmun. 2013]

See reviews... See all...

Recent Activity

Turn Off Clear

Critical Link Between Epigenetics and Transcription Factors in the Induction PubMed

"multiple sclerosis" AND gene (6111) PubMed

PubMed Help - PubMed Help

"multiple sclerosis" AND gene AND (hasabstract[text]) (5826) PubMed

"multiple sclerosis" AND ("CD24 gene" OR CD24 OR "CD24 polymorphi... (27) PubMed

See more...

PubMed Commons PubMed Commons home

0 comments How to join PubMed Commons

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Publication Types

Publication Types REVIEW

LinkOut - more resources

Full Text Sources Springer



# Βιβλιογραφικές Βάσεις

Αναζήτηση όρων

NCBI Resources  How To  Sign in to NCBI

PubMed.gov

US National Library of Medicine  
National Institutes of Health Help

Create RSS Create alert Advanced

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Article types  20 per page  Send to:

Clinical Trial  
Review  
Customize ...

Text availability  
Abstract  
Free full text  
Full text

PubMed Commons  
Reader comments  
Trending articles

Publication dates  
5 years  
10 years  
Custom range...

Species  
Humans  
Other Animals

[Clear all](#)  
[Show additional filters](#)

See 1 citation found by title matching your search:  
[CD24 gene polymorphism is associated with the disease progression and susceptibility to multiple sclerosis in the Iranian population.](#) Ronaghi M et al. Psychiatry Res. (2009)

**Search results**  
Items: 12

- [\[Systemic lupus erythematosus and CD24v\].](#)  
 1. Jiménez-Uscanga RD, Carsolio-Trujano M, Herrera-Sánchez DA, Castrejón-Vázquez MI, Irazoque-Palacios F, Vargas-Camaño ME, Martínez-Aguilar N, Chima-Galán MC.  
 Rev Alerg Mex. 2015 Oct-Dec;62(4):265-70. Spanish.  
 PMID: 26556661  
[Similar articles](#)
- [Contribution of CD24 polymorphisms to autoimmune disease: A meta-analysis.](#)  
 2. Baek J, Kang S, Byeon H, Woo Hwang K, Min H.  
 Comput Biol Med. 2015 Sep;64:268-75. doi: 10.1016/j.combiomed.2015.07.012. Epub 2015 Jul 23.  
 PMID: 26245161  
[Similar articles](#)
- [Polymorphisms of the CD24 Gene Are Associated with Risk of Multiple Sclerosis: A Meta-Analysis.](#)  
 3. Braliou GG, Pantavou KG, Kontou PI, Bagos PG.  
 Int J Mol Sci. 2015 Jun 1;16(6):12368-81. doi: 10.3390/ijms160612368.  
 PMID: 26039238 **Free PMC Article**  
[Similar articles](#)
- [The influence of combined genotypes of the HLA-DRB1\\*1501 and CD24 single nucleotide polymorphism on disease severity of Iranian multiple sclerosis patients.](#)  
 4.

**New feature**

Try the new Display Settings option - **Sort by Relevance**

**Titles with your search terms**

Association between the **CD24 Ala57Val polymorphism** and risk for **multipl** [Sci Rep. 2015]  
 Association between **CD24-P226-C/T polymorphism** and **multiple** [Immunol Invest. 2015]  
[See more...](#)

**Find related data**

Database:

**Search details**

"multiple sclerosis"[All Fields]  
 AND ("CD24 gene"[All Fields] OR  
 "CD24 polymorphism"[All Fields])

[See more...](#)

**Recent Activity**

# Βιβλιογραφικές Βάσεις

## Αναζήτηση συγγραφέων

The image shows a screenshot of the PubMed website search results for the author 'Bagos P'. On the left, there is an inset window showing the 'PubMed Advanced Search Builder' with 'Bagos P[Author]' entered in the search field. A red arrow points from this field to the search bar on the main page. The main page shows the search results for 'Bagos P' with 79 items. The results are sorted by 'Most Recent' and displayed in a list format. Each result includes a title, authors, journal information, and a PMID. The first five results are:

- A multivariate method for meta-analysis and comparison of diagnostic tests.**  
Dimou NL, Adam M, Bagos PG. Stat Med. 2016 Mar 4. doi: 10.1002/sim.6919. [Epub ahead of print] PMID: 26940666 [Similar articles](#)
- Meta-analysis in Stata using gllamm.**  
Bagos PG. Res Synth Methods. 2015 Dec;6(4):310-32. doi: 10.1002/jrsm.1157. Epub 2015 Nov 27. PMID: 26612788 [Similar articles](#)
- Creating a specialist protein resource network: a meeting report for the protein bioinformatics and community resources retreat.**  
Babbitt PC, Bagos PG, Bairoch A, Bateman A, Chatonnet A, Chen MJ, Craik DJ, Finn RD, Gloriam D, Haft DH, Henrissat B, Holliday GL, Isberg V, Kaas Q, Landsman D, Lenfant N, Manning G, Nagano N, Srinivasan N, O'Donovan C, Pruitt KD, Sowdhamini R, Rawlings ND, Saier MH Jr, Sharman JL, Spedding M, Tsirigos KD, Vastermark A, Vriend G. Database (Oxford). 2015 Jul 11;2015:bav063. doi: 10.1093/database/bav063. eCollection 2015. PMID: 26284514 **Free PMC Article** [Similar articles](#)
- Polymorphisms of the CD24 Gene Are Associated with Risk of Multiple Sclerosis: A Meta-Analysis.**  
Braliou GG, Pantavou KG, Kontou PI, Bagos PG. Int J Mol Sci. 2015 Jun 1;16(6):12368-81. doi: 10.3390/ijms160612368. PMID: 26039238 **Free PMC Article** [Similar articles](#)
- Emerging molecular networks common in ionizing radiation, immune and inflammatory responses by employing bioinformatics approaches.**  
Georgakilas AG, Pavlopoulou A, Louka M, Nikitaki Z, Vorgias CE, Bagos PG, Michalopoulos I. Cancer Lett. 2015 Nov 28;368(2):164-72. doi: 10.1016/j.canlet.2015.03.021. Epub 2015 Apr 1. Review. PMID: 25841996 [Similar articles](#)

On the right side of the search results, there are several utility sections: 'New feature' (Sort by Relevance), 'Find related data' (Database: Select), 'Search details' (Bagos P[Author]), and 'Recent Activity' (Bagos P (79), Bagos PG (63), PubMed Help - PubMed Help, Creating a Web Link to PubMed - Web Link Help, "multiple sclerosis" AND gene (6111)).

# Συστήματα οργάνωσης και διαχείρισης βιβλιογραφίας



# Βιβλιογραφία

Η παράθεση βιβλιογραφίας είναι απαραίτητη γιατί:

- Υποστηρίζει και τεκμηριώνει τις ιδέες και τα λεγόμενα του συγγραφέα
- Αποφεύγεται η λογοκλοπή
- Επιτρέπεται στον αναγνώστη να ανατρέξει στην αρχική πηγή προκειμένου να επαληθεύσει ή και να αντιπαραβάλει τα όσα γράφτηκαν
- Προβάλλει το ευρύτερο θεματικό πλαίσιο μέσα στο οποίο κινήθηκε ο συγγραφέας προκειμένου να ολοκληρώσει την έρευνα του
- Δηλώνει τη μεθοδολογία που ακολουθήθηκε και επιτυγχάνεται διασφάλιση του επιστημονικού κύρους

## 1. Introduction

Multiple sclerosis (MS) is a chronic and complex demyelinating disease of the central nervous system (CNS) with an occurrence of about 0.1% in Caucasian young adults [1]. The average age of onset of MS is between 20 and 40, and it is twice as common in women [2]. It is widely believed that the development of MS is attributed mainly to genetic susceptibility combined with environmental factors [3,4]. The most common genetic variants that are known to date belong to HLA class II, are located in chromosome 6p21 and are in linkage disequilibrium, while a variant of HLA-A (class I) is known to confer protection from MS [5]. According to a number of genome wide association studies (GWAS), at least 29 additional genomic regions are suggested to be associated with MS susceptibility [5] (and references therein).

Of particular note, *CD24*, although not detected in GWAS, is a gene that has been investigated thoroughly in regard to its association with autoimmune diseases, including MS, with promising results. The *CD24* gene is located in the chromosomal region 6q21. Interestingly, the particular region (6q) has previously been suggested to be in linkage with MS [6,7]. The CD24 protein is a GPI-anchored cell surface glycoprotein abundantly expressed in a variety of hematopoietic cells such as T and B cells, macrophages, neutrophils, eosinophils and dendritic cells [8–10]. *CD24* is also expressed in cells of the CNS such as neural and glial cells, astrocytes and microglia [8–11], cells involved in the pathogenesis of MS. When expressed in T-cells of the nervous system, *CD24* expression is required for T-cell homeostatic proliferation [10]. It has also been shown that CD24 is responsible for the local expansion of T cells after migration to the CNS and the development of experimental autoimmune encephalomyelitis (EAE) in mouse models [12,13].

Four polymorphisms of the *CD24* gene have been found to be implicated in the etiology of MS and various degenerative diseases [10]; these polymorphisms are: (a) a C-to-T substitution at nucleotide 226 resulting in a Ala57Val substitution; (b) a TG dinucleotide deletion at positions 1527–1528; (c) an A-to-G substitution at nucleotide 1056; and (d) an A-to-G substitution at nucleotide 1626. The later three polymorphisms are located in exon 2 in the 3' UTR, a region that confers mRNA stability [14,15]. rs numbers have been assigned to these polymorphisms (rs52812045, rs3838646, rs1058818 and rs1058881 respectively); however, all correspond to the intronless *CD24* pseudogene, which is located in the chromosomal region Yq11. A number of case-control studies have been performed to investigate the putative association of *CD24* gene polymorphisms with MS development and progression, although the results are controversial. In the present study, we performed a complete meta-analysis of the currently available bibliographic data in order to decipher these associations and add statistical support to them.

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## Combined prediction of Tat and Sec signal peptides with hidden Markov models

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### ABSTRACT

**Motivation:** Computational prediction of signal peptides is of great importance in computational biology. In addition to the general secretory pathway (Sec), Bacteria, Archaea and chloroplasts possess another major pathway that utilizes the Twin-Arginine translocase (Tat), which recognizes longer and less hydrophobic signal peptides carrying a distinctive pattern of two consecutive Arginines (RR) in the *n*-region. A major functional differentiation between the Sec and Tat export pathways lies in the fact that the former translocates secreted proteins unfolded through a protein-conducting channel, whereas the latter translocates completely folded proteins using an unknown mechanism. The purpose of this work is to develop a novel method for predicting and discriminating Sec from Tat signal peptides at better accuracy.

**Results:** We report the development of a novel method, PRED-TAT, which is capable of discriminating Sec from Tat signal peptides and predicting their cleavage sites. The method is based on Hidden Markov Models and possesses a modular architecture suitable for both Sec and Tat signal peptides. On an independent test set of experimentally verified Tat signal peptides, PRED-TAT clearly outperforms the previously proposed methods TatP and TATFIND, whereas, when evaluated as a Sec signal peptide predictor compares favorably to top-scoring predictors such as SignalP and Phobius. The method is freely available for academic users at <http://www.compgen.org/tools/PRED-TAT/>.

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### 1 INTRODUCTION

In all domains of life (Bacteria, Eukarya and Archaea), the majority of secreted proteins are synthesized as precursors that carry a cleavable N-terminal signal sequence. The signal peptide possesses a modular architecture with a positively charged region at the N-terminus (*n*-region), a hydrophobic region (*h*-region) that spans the membrane and a *c*-region of mostly small and uncharged residues ending at the characteristic cleavage site (von Heijne, 1990). The signal peptide is necessary for targeting the protein to

the membrane-embedded export machinery in Bacteria (Driessen and Nouwen, 2007). Eukaryotes (Rapoport *et al.*, 1999) and Archaea (Pohlschroder *et al.*, 2005). Upon translocation across the membrane, the signal peptide is cleaved from the precursor via a membrane-bound signal peptidase (Tuteja, 2005; van Roosmalen *et al.*, 2004). In Eukaryotes, proteins targeted to the organelles of bacterial origin (mitochondria and chloroplasts) also contain cleavable N-terminal targeting sequences, although they are in general different from those found in the eukaryotic or bacterial secreted proteins (Habib *et al.*, 2007; von Heijne *et al.*, 1989).

In addition to the general export pathway (Sec), Bacteria, Archaea and chloroplasts possess another major pathway that utilizes the Twin-Arginine translocase (Tat). Tat recognizes longer and less hydrophobic signal peptides carrying a distinctive pattern of two consecutive Arginines (RR) in the *n*-region (Berks *et al.*, 2005; Lee *et al.*, 2006; Teter and Kliensky, 1999). A major functional differentiation between Sec and Tat export pathways lies in the fact that the former translocates secreted proteins unfolded through a protein-conducting channel, whereas the latter translocates completely folded proteins using an unknown mechanism (Teter and Kliensky, 1999). Interestingly, in halophilic Archaea, the components of the Tat pathway are essential for viability (Dilks *et al.*, 2005; Thomas and Bolhuis, 2006) and there is evidence that Tat-dependent translocation is widely used as part of a mechanism for adaptation to extreme saline environments (Rose *et al.*, 2002).

Computational prediction of signal peptides was performed initially using weight matrices (von Heijne, 1986). However, Neural Networks (NNs) (Nielsen *et al.*, 1997, 1999) as well as Hidden Markov Models (HMMs; Nielsen and Krogh, 1998) introduced by the SignalP method have been proven to be the most successful methods currently available (Menne *et al.*, 2000). Recently, SignalP was retrained and, mainly due to better annotation and selection of the training set, yielded an even better accuracy (Bendtsen *et al.*, 2004). The Phobius (Kall *et al.*, 2004, 2007) and Philius (Reynolds *et al.*, 2008) methods followed a different approach in which a graphical model (HMM and Bayesian network, respectively) was used to predict at the same time the presence of a secretory signal peptide and transmembrane (TM) topology of a given protein minimizing thus the number of signal peptides predicted as TM segments and vice versa. Other methods such as LipoP (Juncker *et al.*, 2003) and PRED-LIPO (Bagos *et al.*, 2008) were developed during the last years for predicting lipoprotein signal peptides, which possess a distinctive cleavage site with an indispensable cysteine responsible for anchoring to the membrane (Sankaran and Wu, 1994;

user to change the regular expression pattern and thus to perform predictions by relaxing the RR motif assumption. This approach, however, has limited usefulness in large-scale analyses since it is not statistically validated (i.e. the number of false positives will increase drastically). Mutagenesis studies in various model organisms have also shown different properties concerning the adjacency to the RR amino acids (DeLisa *et al.*, 2002; Kreutzenbeck *et al.*, 2007; Kwan and Bolhuis, 2010; Li *et al.*, 2006). Moreover, the situation is more complicated, since in many cases some signal peptides possess intermediate properties. For instance, in some cases, signal peptides are rerouted to the Sec machinery only after Tat deactivation and in others, the signal sequences possess promiscuity under physiological conditions (Tullman-Ereck *et al.*, 2007). Thus, it would be non-realistic to expect having a single predictor that could be predicting all these real-life situations. Nevertheless, in a dataset of RR-containing signal peptides that were experimentally verified not to be Tat substrates, PRED-TAT performs satisfactorily, a fact which indicates that indeed the algorithm extracted the general preferences of Tat-substrates successfully.

The method presented here was trained on a combined set of Gram-positive and Gram-negative bacterial sequences. Even though subtle differences exist between the signal peptides' cleavage sites between these classes, the limited size of the training set dictated this choice and the results are satisfactory. Perhaps in the near future, where larger datasets may become available, a different predictor may be feasible to be constructed. The test set also contained several archaeal Tat signal sequences and these were predicted correctly as well. A limitation of PRED-TAT (as well as the previously proposed methods) is that it cannot discriminate Tat lipoproteins. Lipoproteins exported using the Tat machinery have been observed lately, but there are a limited number of well-characterized examples (Gimenez *et al.*, 2007; Shruithi *et al.*, 2010a). Thus, only approaches based on regular expression patterns could be developed for the prediction of such proteins (Shruithi *et al.*, 2010b). However, in the future, where more examples will become available, the flexible architecture of the HMM allows easily the extension to such cases. Another possible extension would be to discriminate between signal anchored proteins exported with the Tat pathway. Such proteins were excluded from the training and test sets, but a future extension of the method could incorporate them in the final prediction.

PRED-TAT is publicly available for non-commercial users at <http://www.compgen.org/tools/PRED-TAT/> where the user may submit a single sequence in order to receive a detailed prediction or upload a file in order to perform batch predictions (i.e. in a whole genome). The profile HMMs (PRED-TAT HMMER) are also freely available for download as an easy to use alternative for large-scale analyses.

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*Conflict of Interest:* none declared.

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# Στοιχεία Βιβλιογραφίας



## Journal

Bonovas, S., Nikolopoulos, G. and Bagos, P., 2013. Bisphosphonate use and risk of colorectal cancer: a systematic review and meta-analysis. *British journal of clinical pharmacology*, 76(3), pp.329-337.

## Book

Book, R.V. and Otto, F., 1993. *String-rewriting systems* (pp. 35-64). Springer New York.

## Conference Proceedings

Pantavou, K., Chatzi, E. and Theoharatos, G., 2013. Comparison of Actual Thermal Vote with Two Objective Human-Biometeorological Indices Values. In *Advances in Meteorology, Climatology and Atmospheric Physics* (pp. 239-245). Springer Berlin Heidelberg.

# Στοιχεία Βιβλιογραφίας

## Στυλ αναφορών

- MLA** Bonovas, Stefanos, Georgios Nikolopoulos, and Pantelis Bagos. "Bisphosphonate use and risk of colorectal cancer: a systematic review and meta-analysis." *British journal of clinical pharmacology* 76.3 (2013): 329-337.
- APA** Bonovas, S., Nikolopoulos, G., & Bagos, P. (2013). Bisphosphonate use and risk of colorectal cancer: a systematic review and meta-analysis. *British journal of clinical pharmacology*, 76(3), 329-337.
- Chicago** Bonovas, Stefanos, Georgios Nikolopoulos, and Pantelis Bagos. "Bisphosphonate use and risk of colorectal cancer: a systematic review and meta-analysis." *British journal of clinical pharmacology* 76, no. 3 (2013): 329-337.
- Harvard** Bonovas, S., Nikolopoulos, G. and Bagos, P., 2013. Bisphosphonate use and risk of colorectal cancer: a systematic review and meta-analysis. *British journal of clinical pharmacology*, 76(3), pp.329-337.
- Vancouver** Bonovas S, Nikolopoulos G, Bagos P. Bisphosphonate use and risk of colorectal cancer: a systematic review and meta-analysis. *British journal of clinical pharmacology*. 2013 Sep 1;76(3):329-37.

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# Συστήματα οργάνωσης και διαχείρισης βιβλιογραφίας

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  - Ταυτόχρονη πρόσβαση διαφορετικών ατόμων στην ίδια βιβλιοθήκη
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CiteULike	N/A	N/A	N/A	N/A	N/A	N/A	?	?	?
colwiz	Yes	Yes	Yes	?	Yes	Yes	Yes	Yes	No
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EndNote	Yes	Yes	No	No	No	No	Yes	No	No
F1000Workspace	Yes	Yes	No	No	No	No	Coming soon	Coming soon	No
JabRef	Yes	Yes	Yes	No	Yes	Yes	No	No	No
KBibTeX	Experimental	Experimental	Yes	?	Yes	Yes	No	No	No
Mendeley	Yes	Yes	Yes	No	No	No	Yes	Yes	No
Paperpile	Yes	Yes	Yes	Yes	No (requires Chrome)	No (requires Chrome)	No	No	No
Papers	Yes <sup>[10]</sup>	Yes	No	?	No	No	Yes	third party <sup>[11]</sup>	No
Pybliographer	Partial <sup>[12]</sup>	Partial <sup>[12]</sup>	Yes	?	Yes	Yes	No	No	No
Qiqqa	Yes	No	No	?	No	No	No	Yes	No
ReadCube	Yes	Yes	No	?	No	No	Yes	Yes	No
refbase	Yes	Yes	Yes	?	Yes	Yes	No	No	No
RefDB	Yes	Yes	Yes	?	Yes	Yes	No	No	No
Reference Manager	Yes <sup>[13]</sup>	No	No	?	No	No	No	No	No
Referencer	No	No	Yes	?	No	No	?	?	?
RefWorks <sup>[14]</sup>	Yes	Yes	Yes	?	Yes	Yes	?	?	?
SciRef	Yes	No	No	?	No	No	?	?	?
Sente	No	Yes	No	?	No	No	Yes <sup>[15]</sup>	?	?
Wikindx	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WizFolio	Yes	Yes	Yes	?	Yes	Yes	?	?	?
Zotero	Yes	Yes	Yes	?	Yes	Yes	third party	third party	No

# EndNote



## Χαρακτηριστικά

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## Περιβάλλον

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Author	Year	Title	Rating	Journal	Last Updated	Reference Type
Altman, Doug...	2003	Interaction revisited: the difference bet...		Bmj	03/03/2016	Journal Article
Altshuler, D....	2008	Genetic mapping in human disease		Science	15/03/2016	Journal Article
Armitage, P.	1955	Tests for Linear Trends in Proportio...		Biometrics	25/02/2016	Journal Article
Aschard, Hug...	2011	Genome-wide meta-analysis of joint te...		Human here...	25/02/2016	Journal Article
Bagos, P. G.	2008	A unification of multivariate metho...		Stat Appl G...	25/02/2016	Journal Article
Bagos, P. G.	2011	Meta-analysis of haplotype-associati...		BMC Genet	25/02/2016	Journal Article
Bagos, Pant...	2011	Meta-analysis of family-based and c...		Statistical ...	15/03/2016	Journal Article
Bagos, P. G.	2012	On the covariance of two correlated ...		Stat Med	25/02/2016	Journal Article
Bagos, Pant...	2011	Meta-analysis of family-based and c...		Statistical ...	25/02/2016	Journal Article
Bagos, P. G....	2010	A multipoint method for meta-analy...		Genet Epid...	25/02/2016	Journal Article
Bagos, Pant...	2007	A method for meta-analysis of case...		Statistical ...	24/02/2016	Journal Article
Bagos, P. G....	2009	Generalized least squares for assessi...		J Clin Epid...	15/03/2016	Journal Article
Bai, X. F.; Li, ...	2004	CD24 controls expansion and persist...		J Exp Med	15/03/2016	Journal Article
Balding, D. J.	2006	A tutorial on statistical methods for ...		Nat Rev Ge...	25/02/2016	Journal Article
Barrowman, ...	2003	Identifying null meta-analyses that ...		BMC Med R...	15/03/2016	Journal Article
Becker, K. G....	2004	The genetic association database		Nat Genet	25/02/2016	Journal Article
Becker, T.; Ci...	2005	Multiple testing in the context of ha...		Ann Hum G...	25/02/2016	Journal Article
Becker, T.; K...	2004	A powerful strategy to account for ...		Am J Hum ...	25/02/2016	Journal Article
Begg, C. B.; ...	1994	Operating characteristics of a rank c...		Biometrics	15/03/2016	Journal Article
Berkey, C. S....	1998	Meta-analysis of multiple outcomes ...		Stat Med	25/02/2016	Journal Article
Blazejczyk, K...		Assessment of recreational potentia...			16/03/2016	Journal Article
Blazejczyk, K...	2012	Comparison of UTCI to selected ther...		Internation...	16/03/2016	Journal Article
Blazejczyk, K...	2013	An introduction to the Universal The...		Geographia...	16/03/2016	Journal Article
Burton, Paul...	2007	Genome-wide association study of I...		Nature	25/02/2016	Journal Article
Burton, P. R...	2005	Key concepts in genetic epidemiology		Lancet	25/02/2016	Journal Article
Chalmers, T. ...	1987	Meta-analysis of clinical trials as a sc...		Stat Med	25/02/2016	Journal Article
Chapman, Ju...	2003	Detecting disease associations due t...		Human her...	07/03/2016	Journal Article
Cochran, W. ...	1954	Some methods for strengthening th...		Biometrics	25/02/2016	Journal Article
Conneely, Ka...	2007	So many correlated tests, so little ti...		The Americ...	05/03/2016	Journal Article
Conneely, Ka...	2010	Meta-analysis of genetic association...		Genetic epi...	05/03/2016	Journal Article
Cordell, H. J...	2005	Genetic association studies		Lancet	25/02/2016	Journal Article
De Iorio, Ma...	2011	Bayesian semiparametric meta-anal...		Genetic epi...	03/03/2016	Journal Article
DerSimonian...	1986	Meta-analysis in clinical trials		Controlled ...	25/02/2016	Journal Article
Devlin, B.; R...	2003	Analysis of multilocus models of ass...		Genet Epid...	25/02/2016	Journal Article
Ebers, G. C.	2008	Environmental factors and multiple ...		Lancet Neu...	15/03/2016	Journal Article
Ebers, G. C.; ...	1995	A genetic basis for familial aggregat...		Nature	15/03/2016	Journal Article
Egger, M.; D...	1997	Bias in meta-analysis detected by a s...		BMJ	15/03/2016	Journal Article
Elangovan, R...	2014	Regulatory genomic regions active i...		J Hum Genet	15/03/2016	Journal Article
Evangelou, E...	2007	Meta-analysis in genome-wide assoc...		PLoS One	25/02/2016	Journal Article

The right-hand pane shows the details for the selected reference:

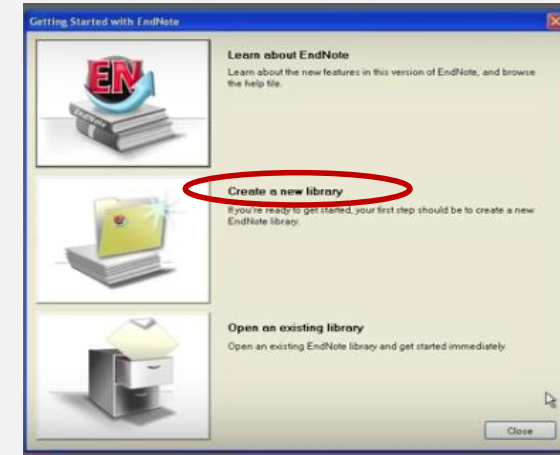
- Reference:** Interaction revisited: the difference between two estimates
- Author:** Altman, Douglas G, Bland, J Martin
- Year:** 2003
- Journal:** Bmj
- Volume:** 326
- Issue:** 7382
- Pages:** 219
- Start Page:** 219
- Epub Date:**
- Date:**
- Type of Article:**
- Short Title:**
- Alternate Journal:**
- ISSN:** 0959-8138
- DOI:**
- Original Publication:**
- Reprint Edition:**



# EndNote

## Δημιουργία βιβλιοθήκης

- Κατά την εγκατάσταση του προγράμματος

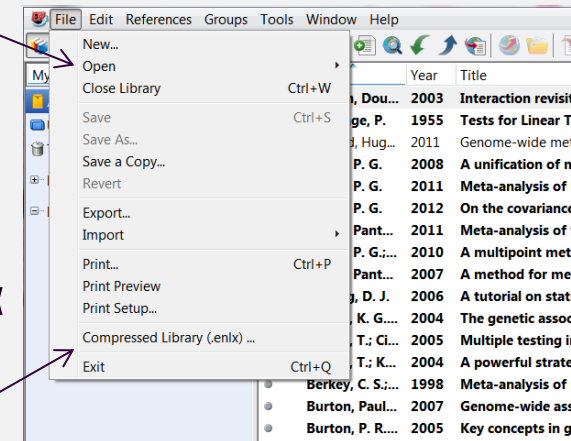
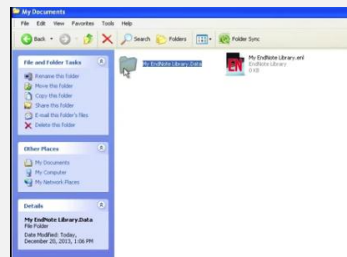


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# EndNote

## Οργάνωση βιβλιοθήκης

The image displays three sequential screenshots of the EndNote application interface, illustrating the process of creating a new group within a library.

**Left Screenshot:** Shows the 'Groups' menu open. The 'Create Group' option is circled in red. A red arrow points from this option towards the right.

**Middle Screenshot:** Shows the 'My Library' sidebar with the 'New Group' input field highlighted in blue. The 'My Groups' section is expanded, showing the 'New Group' field.

**Right Screenshot:** Shows the 'My Library' sidebar with the 'Bioinformatics' group created and selected. The 'My Groups' section is expanded, showing the 'Bioinformatics' group with a count of (0).

**Background Content:** The main window displays a list of references. The visible entries are:

- **Becker, T.; Ci...** 2005 Multiple testing in the cont
- **Becker, T.; K...** 2004 A powerful strategy to acc
- **Berkey, C. S.;...** 1998 Meta-analysis of multiple o

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## Αναζήτηση βιβλιογραφίας

The image illustrates the process of searching for literature in EndNote. It shows three main components:

- Choose A Connection Dialog:** A dialog box for selecting a connection to an online library. It lists various providers such as EBSCO, OvidSP, and PubMed (NLM). A red arrow points from the 'more...' link in the 'My Library' pane to this dialog.
- Search Criteria Window:** A window for defining search criteria. The search term 'Bagos, P' is entered in the search field, which is circled in red. A red arrow points from the 'more...' link in the 'My Library' pane to this window.
- Confirm Online Search Dialog:** A dialog box that displays the results of the search, indicating that 79 records were found. It includes a checkbox to clear current results and 'OK' and 'Cancel' buttons.

The background shows the EndNote main interface with the 'My Library' pane on the left and the search results table at the bottom right.

Author	Year	Title	Rating	Journal	Last Update
Dimou, N. L...	2016	A multivariate method for meta-ana...		Stat Med	15/03/201
Bagos, P. G.	2015	Meta-analysis in Stata using gllamm		Res Synth ...	15/03/201
Babbitt, P. C...	2015	Creating a specialist protein resourc...		Database (...)	15/03/201
Braliou, G. G...	2015	Polymorphisms of the CD24 Gene A...		Int J Mol Sci	15/03/201
Georgakilas, ...	2015	Emerging molecular networks com...		Cancer Lett	15/03/201
Holliday, G. ...	2015	Key challenges for the creation and ...		Proteins	15/03/201

# EndNote

## Εισαγωγή στη βιβλιοθήκη από online αναζήτηση μέσω EndNote

2

Εύρεση ολόκληρου κειμένου

The screenshot shows the EndNote interface with a search for 'Bagos, P' in PubMed. The search results table is as follows:

Author	Year	Title	Rating	Journal	Last Update
Dimou, N. L....	2016	A multivariate method for meta-ana...		Stat Med	15/03/201
Bagos, P. G.	2015	Meta-analysis in Stata using gllamm		Res Synth ...	15/03/201
Babbitt, P. C....	2015	Creating a specialist protein resourc...		Database (...)	15/03/201
Braliou, G. G...	2015	Polymorphisms of the CD24 Gene A...		Int J Mol Sci	15/03/201
Georgakilas, ...	2015	Emerging molecular networks com...		Cancer Lett	15/03/201
Holliday, G. ...	2015	Key challenges for the creation and ...		Proteins	15/03/201
Braliou, G. G...	2014	The role of genetic polymorphisms ...		Comput Str...	15/03/201
Efthimiou, O...	2014	An approach for modelling multiple ...		Stat Med	15/03/201
Nikolopoulo...	2014	The association between plasminog...	.....	Clin Chem L...	15/03/201
Pereira, T. V....	2014	Multivariate meta-analysis of the as...	.....	Mol Biol Rep	15/03/201
Koletsis, D. F...	2014	Are sample sizes clear and justified i...	.....	PLoS One	15/03/201
Tsaousis, G. ...	2014	HMMpTM: improving transmembra...	.....	Biochim Bi...	15/03/201
Ioannidou, V...	2013	Multilocus sequence typing (and ph...		BMC Res N...	15/03/201
Tsiara, C. G.; ...	2013	Effect of hepatitis C virus on immun...		J Viral Hepat	15/03/201
Tsantes, A. E...	2013	Effect of angiotensin converting enz...		Minerva An...	15/03/201
Bagos, P. G.	2013	Genetic model selection in genome...		Stat Appl G...	15/03/201
Bonovas, S.; ...	2013	Bisphosphonate use and risk of colo...		Br J Clin Ph...	15/03/201
Bangalore, S...	2013	Percutaneous coronary intervention ...		Circulation	15/03/201
Hamodrakas...	2013	Meeting report: the seventh confere...		Comput Str...	15/03/201
Bonovas, S.; ...	2012	Use of fibrates and cancer risk: a sys...		PLoS One	15/03/201
Rabe, G. L.; ...	2013	Efficacy of emergency department-i...		Nicotine To...	15/03/201
Stoumpos, S...	2013	The association between apolipoppro...		J Hum Hyp...	15/03/201
Bagos, P. G.	2012	On the covariance of two correlated ...		Stat Med	15/03/201

The details panel on the right shows the following information for the selected article:

- Rating:** . . . . .
- Author:** Nikolopoulos, G. K., Bagos, P. G., Tsangaris, I., Tsiara, C. G., Kopterides, P., Vaiopoulos, A., Kapsimali, V., Bonovas, S., Tsantes, A. E.
- Year:** 2014
- Title:** The association between plasminogen activator inhibitor type 1 (PAI-1) levels, PAI-1 4G/5G polymorphism, and myocardial infarction: a Mendelian randomization meta-analysis
- Journal:** Clin Chem Lab Med
- Volume:** 52
- Issue:** 7
- Pages:** 937-50
- Start Page:**

1

1. Επιλογή αναφορών
2. Αντιγραφή στην βιβλιοθήκη

# EndNote

## Εισαγωγή στη βιβλιοθήκη από Google Scholar

Web Images More... kpantavou@compngen.org

Google "multiple sclerosis" AND "CD24 gene"

Scholar About 47 results (0.04 sec) My Citations

Articles **Polymorphisms of the CD24 Gene Are Associated with Risk of Multiple Sclerosis: A Meta-Analysis** [HTML] from mdpi.com

GG Braliou, KG Pantavou, PI Kontou... - *International journal of ...*, 2015 - mdpi.com

Abstract. CD24 is a cell-surface protein mainly expressed in cells of the immune and central nervous system (CNS), cells that play a critical role in the development of **multiple sclerosis** (MS). In the current study, we investigated four polymorphisms of the **CD24 gene** ...

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**Evaluating the Association between Rs1800624 in RAGE Gene and Multiple Sclerosis in Isfahan Population**

A Jazaeri, A Karimi Moghadam, S Vallian Borujeni - *SSU\_Journals*, 2016 - jssu.ssu.ac.ir

... References: 1- Ronaghi M, Vallian S, Etemadifar M. **CD24 gene** polymorphism is associated with the disease progression and susceptibility to **multiple sclerosis** in the Iranian population. *Psychiatry Res* 2009; 170(2): 271-72. [Persian]. 2- Goldenberg MM. ...

Related articles All 2 versions **Cite** Save

**A single-nucleotide polymorphism in serine-threonine kinase 11, the gene encoding liver kinase B1, is a risk factor for multiple sclerosis** [HTML] from sagepub.com

Al Boulelme, D Skias, EM Hartman, FD Testai... - *ASN neuro*, 2015 - asn.sagepub.com

... A Single-Nucleotide Polymorphism in Serine-Threonine Kinase 11, the Gene Encoding Liver Kinase B1, is a Risk Factor for **Multiple Sclerosis**. ... Abstract. We identified a family in which five siblings were diagnosed with **multiple sclerosis** (MS) or clinically isolated syndrome. ...

Cited by 2 Related articles All 5 versions **Cite** Save

**Association between the CD24 Ala57Val polymorphism and risk for multiple sclerosis and systemic lupus erythematosus: a meta-analysis** [HTML] from nature.com

J Huang, Y Yang, Z Liang, M Kang, Y Kuang, F Li - *Scientific reports*, 2015 - nature.com

... **Multiple sclerosis** (MS) and systemic lupus erythematosus (SLE) are autoimmune diseases mediated by self-reactive T cells and other cells of the adaptive and innate immune ... The human **CD24 gene**, which maps on 6q21, is considered a candidate gene for MS and SLE. ...

Cited by 2 Related articles All 5 versions **Cite** Save

**Association Between CD24-P226-C/T Polymorphism and Multiple Sclerosis: A Meta-Analysis**

L Jiang, X Bai, Y Wang, M Wei - *Immunological investigations*, 2015 - Taylor & Francis

... (2006). The association between the inducible costimulatory molecules, CD 28, **CD24 gene** polymorphisms and **multiple sclerosis**. ... **CD24 gene** polymorphism is associated with the disease

**Cite** X

Copy and paste a formatted citation or use one of the links to import into a bibliography manager.

MLA Braliou, Georgia G., et al. "Polymorphisms of the CD24 Gene Are Associated with Risk of Multiple Sclerosis: A Meta-Analysis." *International journal of molecular sciences* 16.6 (2015): 12368-12381.

APA Braliou, G. G., Pantavou, K. G., Kontou, P. I., & Bagos, P. G. (2015). Polymorphisms of the CD24 Gene Are Associated with Risk of Multiple Sclerosis: A Meta-Analysis. *International journal of molecular sciences*, 16(6), 12368-12381.

Chicago Braliou, Georgia G., Katerina G. Pantavou, Panagiota I. Kontou, and Pantelis G. Bagos. "Polymorphisms of the CD24 Gene Are Associated with Risk of Multiple Sclerosis: A Meta-Analysis." *International journal of molecular sciences* 16, no. 6 (2015): 12368-12381.

Harvard Braliou, G.G., Pantavou, K.G., Kontou, P.I. and Bagos, P.G., 2015. Polymorphisms of the CD24 Gene Are Associated with Risk of Multiple Sclerosis: A Meta-Analysis. *International journal of molecular sciences*, 16(6), pp.12368-12381.

Vancouver Braliou GG, Pantavou KG, Kontou PI, Bagos PG. Polymorphisms of the CD24 Gene Are Associated with Risk of Multiple Sclerosis: A Meta-Analysis. *International journal of molecular sciences*. 2015 Jun 1;16(6):12368-81.

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## Εισαγωγή στη βιβλιοθήκη από Scopus

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Year

- 2016 (76)
- 2015 (618)
- 2014 (661)
- 2013 (782)
- 2012 (666)

Author Name

- Oksenberg, J.R. (142)
- Hillert, J. (137)
- Hauser, S.L. (121)
- Olsson, T. (114)
- Compston, A. (114)

Subject Area

- Medicine (5,638)
- Neuroscience (3,117)
- Biochemistry, Genetics and Molecular Biology (2,850)
- Immunology and Microbiology (2,744)

1

2

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4

1. Επιλογή αναφορών

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## Εισαγωγή στη βιβλιοθήκη από PubMed

NCBI Resources How To Sign in to NCBI

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US National Library of Medicine National Institutes of Health

Article types: Clinical Trial, Review, Customize...

Text availability: Abstract, Free full text, Full text

PubMed Commons: Reader comments, Trending articles

Publication dates: 5 years, 10 years, Custom range...

Species: Humans, Other Animals

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Search results Items: 1 to 20 of 6111 Selected: 4

1. [Critical Link Between Epigenetics and Transcription Factors in the In...](#)  
 Comprehensive Review  
 Wu H, Zhao M, Yoshimura A, Chao C, Lu G  
 Clin Rev Allergy Immunol. 2016  
 PMID: 26969025  
[Similar articles](#)

2. [Deficiency of IκB Kinase in Encephalomyelitis](#)  
 Hao W, Decker Y, Schnöde  
 Am J Pathol. 2016 Mar 8; pii: S...  
 PMID: 26968344  
[Similar articles](#)

3. [MerTK Is a Functional Reg...](#)  
 Healy LM, Perron G, Won J, Antel JP.  
 J Immunol. 2016 Mar 9; pii: 15...  
 PMID: 26962228  
[Similar articles](#)

4. [Mirna-Mediated Macrophage Polarization and its Potential Role in the Regulation of Inflammatory Response](#)  
 Essandoh K, Li Y, Huo J, Fan GC, Shock. 2016 Mar 3. [Epub ahead of print]  
 PMID: 26954942  
[Similar articles](#)

5. [dbPEC: a comprehensive literature-based database for preeclampsia related genes and phenotypes](#)  
 Uzun A, Triche EW, Schuster J, Dewan AT, Padbury JF.  
 Database (Oxford). 2016 Mar 5;2016. pii: baw006. doi: 10.1093/database/baw006. Print 2016.  
 PMID: 26946289 Free PMC Article

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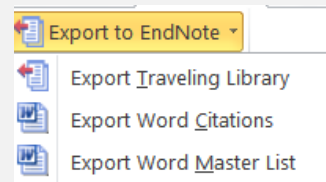
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2. Send to → Citation manager
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## Εισαγωγή στη βιβλιοθήκη από Word

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Edit Library Reference(s)

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Citations Bibliography Tools

MS under dominant mode of inheritance denoting a protective role against MS. On the contrary, no associations exist for the 1056 A/G and 1626 A/G polymorphisms with MS. ¶  
Conclusion: We found that CD24 Ala>Val 57 polymorphism confers a risk for MS while 1527/1528 TG/del polymorphism seems to have a protective role against MS, suggesting that the latter can be used as predictive biomarkers for MS development. ¶



# EndNote

## Εισαγωγή βιβλιογραφίας μη αυτόματα

Annotated

Quick Search

My Library

- All References (101)
- Unfiled (101)
- Trash (0)
- My Groups
- Find Full Text

Author	Year	Title	Rating
Altman, Dou...	2003	Interaction revisited: the difference ...	
Armitage, P.	1955	Tests for Linear Trends in Proportio...	
Aschard, Hug...	2011	Genome-wide meta-analysis of joint te...	
Bagos, P. G.	2008	A unification of multivariate metho...	
Bagos, P. G.	2011	Meta-analysis of haplotype-associati...	
Bagos, P. G.	2012	On the covariance of two correlated ...	
Bagos, Pant...	2011	Meta-analysis of family-based and c...	
Bagos, P. G.:...	2010	A multipoint method for meta-analy...	
Bagos, Pant...	2007	A method for meta-analysis of case-...	
Balding, D. J.	2006	A tutorial on statistical methods for ...	
Becker, K. G....	2004	The genetic association database	

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Reference Attached PDFs

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Reference Type: Journal Article Hide Empty Fields

Rating

Author

Year

Title

Journal

Volume

Issue

Pages

Start Page

Epub Date

Date

Type of Article

Short Title

Alternate Journal

# EndNote

## Επεξεργασία βιβλιογραφίας

The screenshot displays the EndNote interface. On the left, a sidebar shows 'My Library' with 'All References (101)', 'Unfiled (101)', and 'Trash (0)'. Below this are 'My Groups' and 'Find Full Text'. The main window shows a table of references with columns for Author, Year, Title, Rating, Journal, and Last Update. A red circle highlights the 'Edit References' option in the context menu for the selected reference. A red arrow points from this menu item to the detailed view on the right.

Author	Year	Title	Rating	Journal	Last Update
Altman, Dou...	2003	Interaction revisited: the difference...		Bmj	03/03/20...
Arn...		Record Summary...		Biometrics	25/02/20...
Asc...		New Reference		Human here...	25/02/201...
Bag...		Edit References		Stat Appl G...	25/02/20...
Bag...		Move References to Trash		BMC Genet	25/02/20...
Bag...		Add References To		Stat Med	25/02/20...
Bag...		Copy References To		Statistical ...	25/02/20...
Bag...		E-mail Reference		Genet Epid...	25/02/20...
Bag...		Remove References From Group		Statistical ...	24/02/20...
Bal...		Cut		Nat Rev Ge...	25/02/20...
Bec...		Copy		Nat Genet	25/02/20...
Bec...		Copy Formatted		Ann Hum G...	25/02/20...
Bec...		Paste		Am J Hum ...	25/02/20...
Be...		Mark as Read		Stat Med	25/02/20...
Bur...		Mark as Unread		Nature	25/02/20...
Bur...		Rating		Lancet	25/02/20...
Cha...		Show All References		Stat Med	25/02/20...
Cha...		Show Selected References		Human her...	07/03/20...
Coc...		Hide Selected References		Biometrics	25/02/20...
Cor...		File Attachments		The Americ...	05/03/20...
Cor...		PDF Viewer		Genetic epi...	05/03/20...
Cor...		Find Full Text		Lancet	25/02/20...
De...		Find Reference Updates...		Genetic epi...	03/03/20...
Der...		URL		Controlled ...	25/02/20...
Dev...		Restore to Library		Genet Epid...	25/02/2016
Eva...		Resolve Sync Conflicts...		PLoS One	25/02/2016
Frei...				Biometrics	25/02/2016
Freidlin, B. J. ...	2002	Trend tests for case-control studies ...		Hum Hered	25/02/2016
Galesloot, T. ...	2014	A comparison of multivariate geno...		PloS one	05/03/2016
Gastwirth, J. ...	1985	The Use of Maximin Efficiency Robu...		Journal of t...	25/02/2016
Glass, G. ...	1976	Primary, secondary and meta-analys...		Educ Res	25/02/2016

The detailed view on the right shows the following information for the selected reference:

- Reference Type:** Journal Article
- Rating:** . . . . .
- Author:** Altman, Douglas G, Bland, J Martin
- Year:** 2003
- Title:** Interaction revisited: the difference between two estimates
- Journal:** Bmj
- Volume:** 326
- Issue:** 7382
- Pages:** 219
- Start Page:** 219
- Epub Date:** 25/02/20...
- Date:** 25/02/20...
- Type of Article:** Alternate Journal
- Short Title:** Alternate Journal

# EndNote

## Εισαγωγή βιβλιογραφίας σε Word

MS under dominant mode of inheritance denoting a protective role against MS. On the contrary, no associations exist for the 1056 A/G and 1626 A/G polymorphisms with MS.

**Conclusion:** We found that CD24 Ala>Val 57 polymorphism confers a risk for MS while 1527/1528 TG/del polymorphism seems to have a protective role against MS, suggesting that the latter can be used as predictive biomarkers for MS development.

■

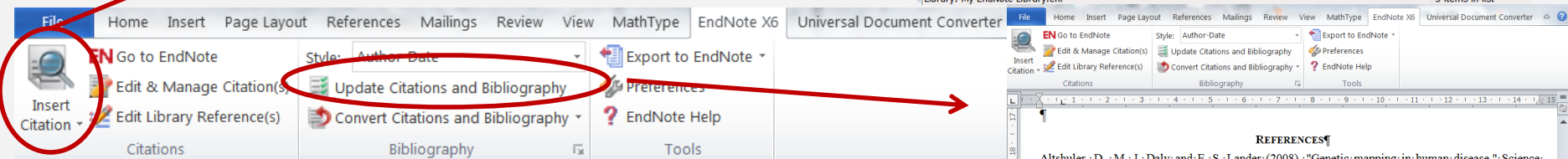
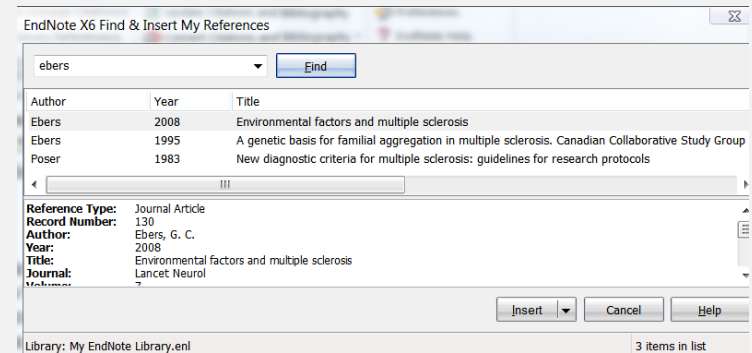
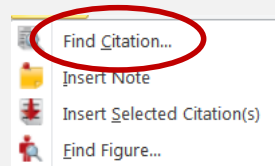
### INTRODUCTION

Multiple sclerosis (MS) is a chronic and complex demyelinating disease of the Central nervous System (CNS) [1] with a prevalence of about 0.1% in Caucasian young adults [2]. The target age of disease onset is between 20 and 40 with the double frequency in women compared to men [3]. It is reported that environmental factors act together with genetic susceptibility to develop MS [4] and even that the biggest genetic susceptibility the lowest age at onset [5]. The most common genetic variants described to date belong to HLA class II located in chromosome 6p21 and are in linkage disequilibrium, while a variant of HLA-A (class I) confers a protection [5]. A number of Genome Wide Association studies (GWAS) implicated at least 29 additional regions in MS susceptibility ([5] and references therein).

CD24, although not revealed in GWAS, is a gene that has been carefully and quite investigated for its association with autoimmune diseases, including MS, with promising results. CD24 gene is located in 6q21 region [6, 7], and the distal 6q region has previously been suggested to be in linkage with MS [8]. CD24 protein is a GPI-anchored cell surface glycoprotein abundantly expressed in a variety of hematopoietic cells such as T, B cells, macrophages, neutrophils, eosinophils, dendritic cells [9-12].

# EndNote

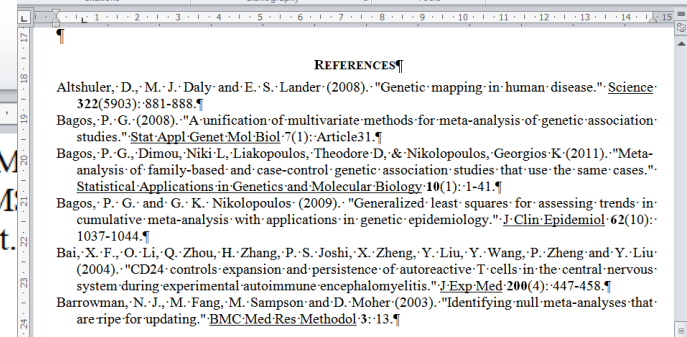
## Εισαγωγή βιβλιογραφίας σε Word



Conclusion: We found that CD24 Ala>Val 57 polymorphism confers a risk for MS while 1527/1528 TG/del polymorphism seems to have a protective role against MS suggesting that the latter can be used as predictive biomarkers for MS development.

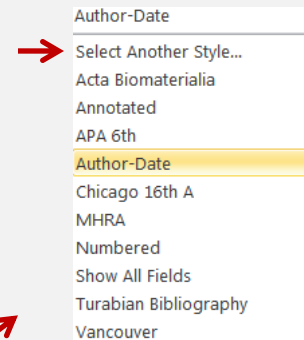
### INTRODUCTION

Multiple sclerosis (MS) is a chronic and complex demyelinating disease of the Central nervous System (CNS) (Ebers, Sadovnick et al. 1995) with a prevalence of about 0.1% in Caucasian young adults (Noseworthy 1999). The target age of disease onset is between 20 and 40 with the double frequency in women compared to men (Milo and Kahana 2010). It is reported that environmental factors act together with genetic susceptibility to develop MS (Ebers 2008) and even that the biggest genetic susceptibility the lowest age at onset (International Multiple Sclerosis Genetics,



# EndNote

## Επιλογή στυλ βιβλιογραφίας



A screenshot of the EndNote X6 software interface. The 'References' tab is active, and the 'Style' dropdown menu is set to 'Author-Date'. A red circle highlights the 'Style' dropdown, and a red arrow points from it to the style selection menu shown in the previous image. The main text area contains the following text:

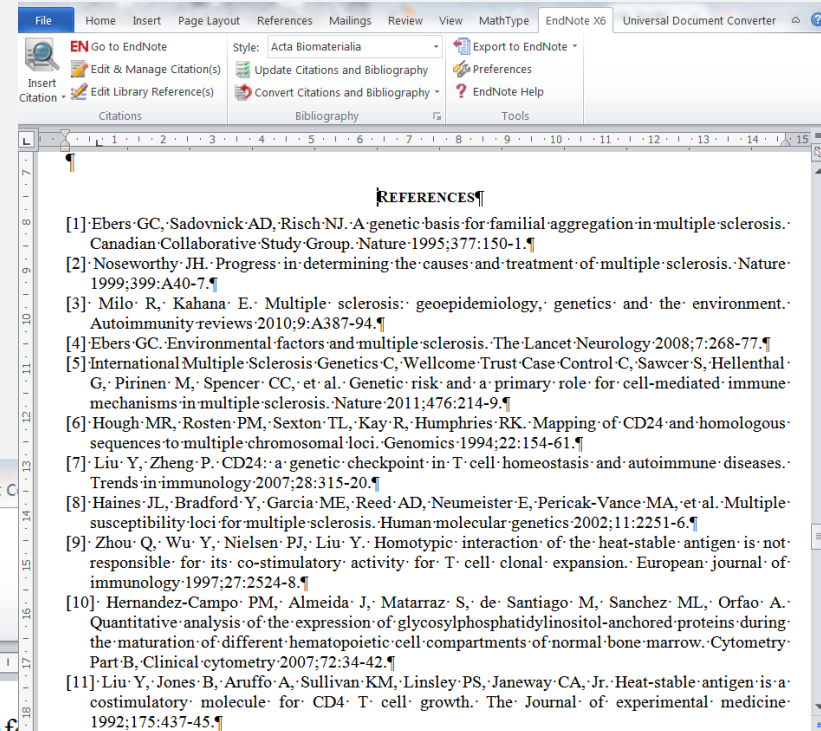
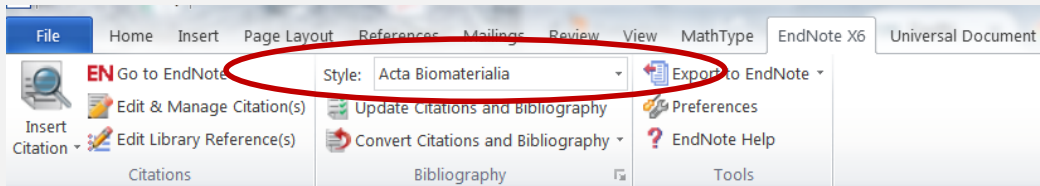
Conclusion: We found that CD24 Ala>Val 57 polymorphism confers a risk for MS while 1527/1528 TG/del polymorphism seems to have a protective role against MS, suggesting that the latter can be used as predictive biomarkers for MS development.

**INTRODUCTION**

Multiple sclerosis (MS) is a chronic and complex demyelinating disease of the Central nervous System (CNS) (Ebers, Sadovnick et al. 1995) with a prevalence of about 0.1% in Caucasian young adults (Noseworthy 1999). The target age of disease onset is between 20 and 40 with the double frequency in women compared to men (Milo and Kahana 2010). It is reported that environmental factors act together with genetic susceptibility to develop MS (Ebers 2008) and even that the biggest the genetic susceptibility the lowest age at onset (International Multiple Sclerosis Genetics,

# EndNote

## Επιλογή στυλ βιβλιογραφίας



MS.¶

**Conclusion:** We found that CD24 Ala>Val 57 polymorphism confers a risk for MS, while 1527/1528 TG/del polymorphism seems to have a protective role against MS, suggesting that the latter can be used as predictive biomarkers for MS development. ¶

¶

**INTRODUCTION**¶

Multiple sclerosis (MS) is a chronic and complex demyelinating disease of the Central nervous System (CNS) [1] with a prevalence of about 0.1% in Caucasian young adults [2]. The target age of disease onset is between 20 and 40 with the double frequency in women compared to men [3]. It is reported that environmental factors act together with genetic susceptibility to develop MS [4] and even that the biggest the genetic susceptibility the lowest age at onset [5]. The most common genetic variants described to date belong to HLA class II located in chromosome 6p21 and are in linkage disequilibrium, while a variant of HLA-A (class I) confers a protection [5]. A number of Genome Wide Association studies (GWAS) implicated at least 29 additional regions in MS susceptibility ([5] and references therein). ¶

# Mendeley



## Χαρακτηριστικά

- Διατίθεται ελεύθερα (Windows, OS X, Linux και ios apps)
- Μπορεί να αποθηκεύσει αυτόματα στην προσωπική βιβλιοθήκη αρχεία \*.pdf
- Εξάγει από τα αρχεία \*.pdf πληροφορίες (τίτλος, συγγραφείς, έτος δημοσίευσης κ.α.) άρθρων
- Μεταφέρει απευθείας αναφορές από το Scopus

# Mendeley

## Περιβάλλον

Mendeley Desktop

File Edit View Tools Help

Add Files Folders Related Share Sync

Search

Mendeley

- Literature Search
- Mendeley Suggest

My Library

- All Documents
- Recently Added
- Recently Read
- Favorites
- Needs Review
- My Publications
- Unsorted
- Create Folder...
- Groups
- Create Group...
- Trash
- All Deleted Docume...

Filter by Authors

- All
- Abd-Elfatah, Hoda a
- Abdel-Ghany, a. M.
- Abrams, Keith R
- Accetta, Gabriele
- Ades, a E
- Aessopos, a
- Agano, Katsunori N
- Agha, Hala
- Ahmad, Sabarinah Sh
- Ahmed, Khandaker Sha...
- Akoi, Tomonori S
- Al-Helal, I. M.
- Alcoforado, M.-J.
- Alcoforado, Maria-João
- Alexis, Neil
- Alfano, G
- Ali, Sharafat
- Ali-Toudert, F
- Ali-toudert, Fazia
- Altman, Douglas G.
- Alucci, Marcia Peinado
- Alucci, Mária Peinado
- Amelung, B

Authors	Title	Year	Published In	Added
Abdel-Ghany, a. M.; Al-Helal, I. M.; Sha...	Human Thermal Comfort and Heat Stress in an Outdoor Urban Arid Environment: A Case Study	2013	Advances in Meteorology	30/12/14
Ahmed, Khandaker Shabbir	Comfort in urban spaces: defining the boundaries of outdoor thermal comfort for the tropical urban environments	2003	Energy and Buildings	07/06/14
Akoi, Tomonori S; Ochida, Tohru M; Aga...	Characteristics and Consideration of Required Sweat Rate Standard of the Previous ISO 7933	2006		07/06/14
Ali-Toudert, F.; Mayer, H.	Thermal comfort in an east-west oriented street canyon in Freiburg (Germany) under hot summer conditions	2006	Theoretical and Applied Climatology	07/06/14
Ali-Toudert, Fazia; Mayer, Helmut	Numerical study on the effects of aspect ratio and orientation of an urban street canyon on outdoor thermal comfort in hot and dry climate	2006	Building and Environment	07/06/14
Alucci, Mária Peinado; Monteiro, Leonar...	Climate and Thermal Stress in Outdoor Spaces	2004		07/06/14
Amelung, B; Blazejczyk, K; Matzarakis, ...	CLIMATIC CHANGES IN THERMAL COMFORT AT THE ADRIATIC COAST	2007		07/06/14
Andrade, H.; Alcoforado, M.-J.	Microclimatic variation of thermal comfort in a district of Lisbon (Telheiras) at night	2007	Theoretical and Applied Climatology	07/06/14
Andrade, Henrique; Alcoforado, Maria-J...	Perception of temperature and wind by users of public outdoor spaces: relationships with weather parameters and personal characteristics.	2011	International journal of biometeorology	07/06/14
Andreas, Tzu-ping Lin; Huang, Matzarak...	Thermal comfort and passive design strategy of bus shelters	2006		07/06/14
Anthopoulos, P G; Hamodrakas, S J; Bag...	Apolipoprotein E polymorphisms and type 2 diabetes: a meta-analysis of 30 studies including 5423 cases and 8197 controls.	2010	Molecular genetics and metabolism	07/06/14
Atlas, World	Distribution of Effective Temperature over the Surface of the Earth	1967		07/06/14
Auliciems, Andris; Szokolay, Steven V	Thermal comfort			07/06/14
Bagos Dimou, Niki L, Liakopoulos, Theod...	Meta-analysis of family-based and case-control genetic association studies that use the same cases.	2011	Statistical Applications in Genetics and Molecular Bl...	11:18am
Bagos, P G	Genetic model selection in genome-wide association studies: robust methods and the use of meta-analysis	2013	Statistical Applications in Genetics and Molecular Bl...	29/11/15
Bagos, P G	Meta-analysis of haplotype-association studies: comparison of methods and empirical evaluation of the literature	2011	BMC Genet	11:18am
Bagos, P G	On the covariance of two correlated log-odds ratios	2012	Stat Med	11:18am
Bagos, P G; Liakopoulos, T D	A multipoint method for meta-analysis of genetic association studies	2010	Genet Epidemiol	11:18am
Bagos, P G; Nikolopoulos, G K	Generalized least squares for assessing trends in cumulative meta-analysis with applications in genetic epidemiology	2009	J Clin Epidemiol	11:18am

1 of 359 documents selected

Details Notes Contents Enrichments

Type: Journal Article

**Human Thermal Comfort and Heat Stress in an Outdoor Urban Arid Environment: A Ca...**

Authors: a. Abdel-Ghany, I. Al-Helal, M. Shady

[View research catalog entry for this paper](#)

Journal: *Advances in Meteorology*

Year: 2013

Volume: 2013

Issue: i

Pages: 1-7

**Abstract:**

**Tags:**

**Author Keywords:**

**URL:**

<http://www.hindawi.com/journals/amete/201...>

Add URL...

**Catalog IDs**

ArXiv ID:

DOI: 10.1155/2013/693541

ISSN: 1687-9309

PMID:

**Files:**

[Abdel-Ghany, Al-Helal, Shady - 2013 - Human...](#)

Add File...

**Other Settings**

Unpublished work - exclude from Mendeley Web catalog



# Mendeley

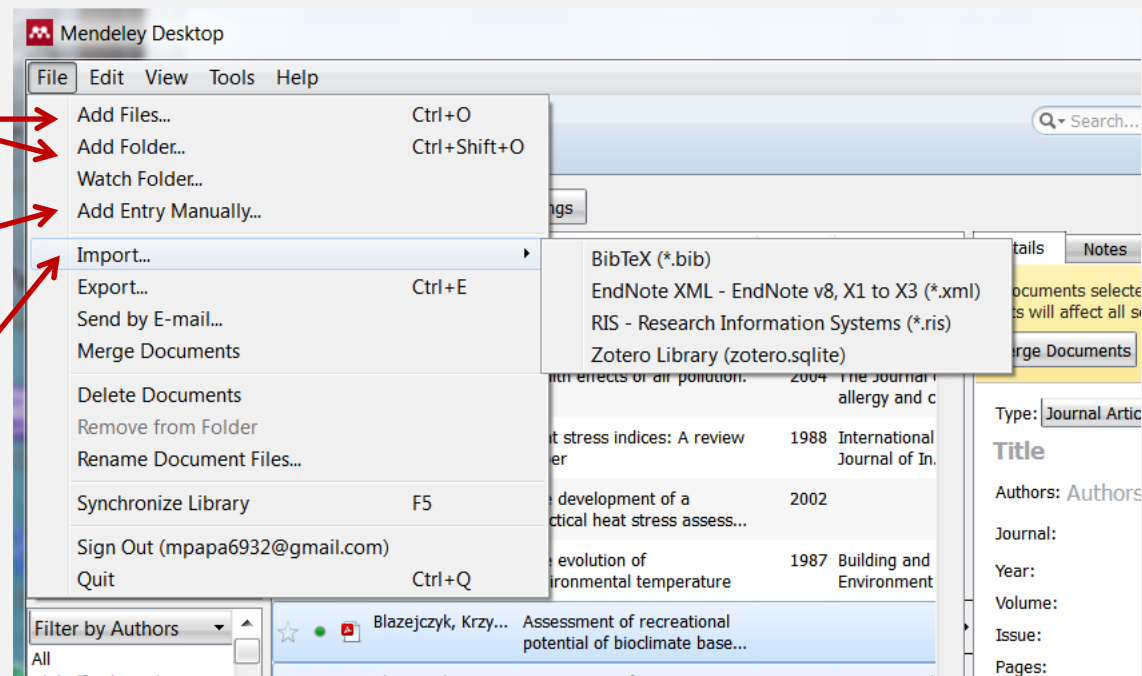
## Δημιουργία βιβλιοθήκης

- Δημιουργούμε λογαριασμό
- Δημιουργούμε προσωπική βιβλιοθήκη προσθέτοντας τα αρχεία \*.pdf που είναι αποθηκευμένα στον υπολογιστή μας με *drag and drop* ή από το *File*

Αποθηκευμένα αρχεία,

Προσθήκη μη αυτόματη

Άλλο σύστημα διαχείρισης βιβλιογραφίας



# Mendeley

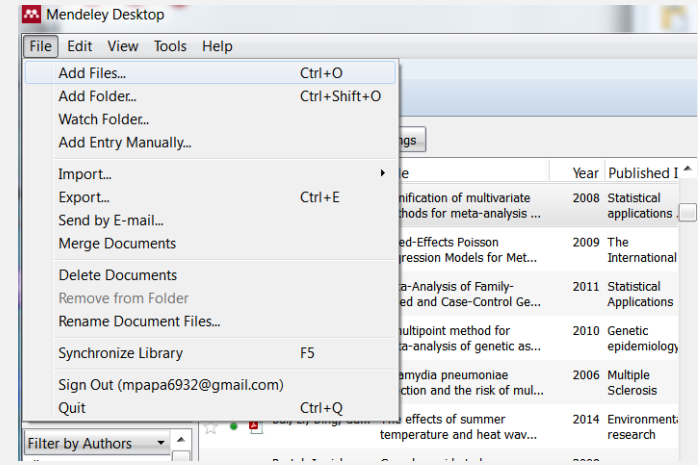
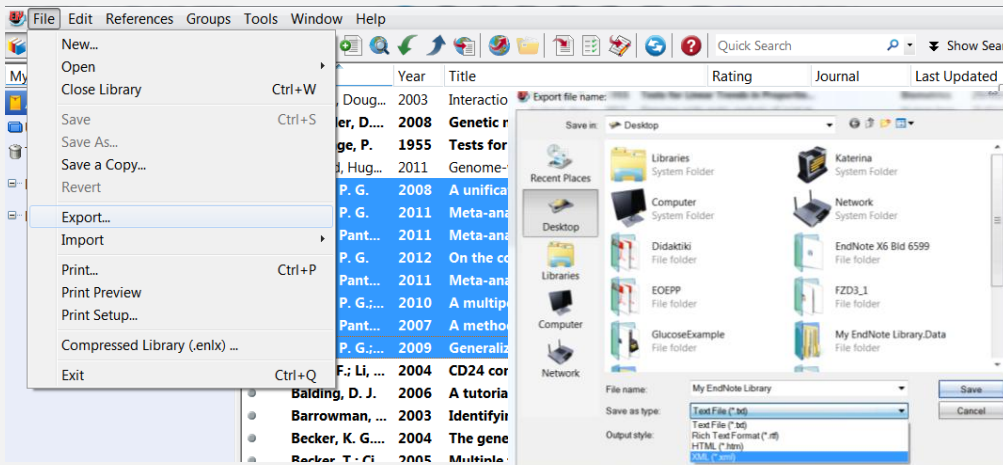
## Μεταφορά αναφορών EndNote → Mendeley

### EndNote

- File → Export ως αρχείο \*.xml των αναφορών που έχουμε επιλέξει από το EndNote

### Mendeley

- File → Add Files (το αρχείο \*.xml που δημιουργήσα στο προηγούμενο βήμα)



# Mendeley

## Μεταφορά αναφορών Mendeley → EndNote

### Mendeley

- File → Export ως αρχείο \*.xml των αναφορών που έχουμε επιλέξει από το Mendeley

### EndNote

- File → Import (το αρχείο \*.xml που δημιουργήσα στο προηγούμενο βήμα)

The image shows two screenshots illustrating the process of transferring references from Mendeley to EndNote.

**Left Screenshot (Mendeley Desktop):** The 'Export Selected Documents' dialog box is open. The 'File name' is 'My Collection' and the 'Save as type' is 'EndNote XML - EndNote v8, X1 or X2 (\*.xml)'. The 'Export' button is highlighted.

**Right Screenshot (EndNote X6):** The 'Import File' dialog box is open. The 'Import File' field contains 'My Collection.xml'. The 'Import Option' dropdown menu is set to 'EndNote generated XML', which is circled in red. The 'Duplicates' dropdown is set to 'Discard duplicates' and the 'Text Translation' dropdown is set to 'No Translation'. The 'Import' button is highlighted.

# Mendeley

## Αναζήτηση βιβλιογραφίας online μέσω Mendeley

Προσθήκη όρου αναζήτησης

The screenshot displays the Mendeley Desktop interface. On the left, the 'Literature Search' button is circled in red. The main window shows a search for "multiple sclerosis" AND gene". The search results are listed in a table format:

Author(s)	Title	Year	Journal/Source
Antonio J. Berlanga-Taylor; G Disanto...	Vitamin D-gene interactions in multiple sclerosis	2011	Journal of the Neurological Sciences
Christopher Lock; G Hermans; R Pedott...	Gene-microarray analysis of multiple sclerosis lesions yields new targets validated in autoimmune encephalomyel	2002	Nature medicine
I a Hoppenbrouwers; YS Aulchenko; GC ...	EVIS is a risk gene for multiple sclerosis.	2008	Genes and Immunity
Ranjan Dutta; BD Trapp	Gene expression profiling in multiple sclerosis brain	2012	Neurobiology of Disease
Pi Guo; Q Zhang; Z Zhu; Z Huang; K Li	Mining gene expression data of multiple sclerosis	2014	PLoS ONE
Serena Sanna; M Pitzalis; M Zoledziw...	Variants within the immunoregulatory CBLB gene are associated with multiple sclerosis.	2010	Nature genetics
Sergio E Baranzini; SL Hauser	Large-scale gene-expression studies and the challenge of multiple sclerosis.	2002	Genome Biology
	Rare variants in the CYP27B1 gene are associated with multiple sclerosis		

On the right side of the interface, a detailed view of the first search result is shown, including the title "Vitamin D-gene interactions in multiple sclerosis", authors "A. Berlanga-Taylor, G. Disanto, G. Ebers et al.", and publication information "Journal of the Neurological Sciences", Year: 2011, Volume: 311, Issue: 1-2, Pages: 32-36.

# Mendeley

## Εισαγωγή στη βιβλιοθήκη online αναζήτηση μέσω Mendeley

Προσθήκη όρου αναζήτησης

Επιλογή αναφοράς και προσθήκη αναφοράς αυτόματα

The screenshot shows the Mendeley Desktop interface. On the left, the 'Literature Search' button is circled in red. The main window displays search results for the query 'multiple sclerosis' AND gene. A red arrow points to the search bar, and another red arrow points to the 'Save Reference' button in the details pane.

Authors	Title	Year	Environment
Abdel-Ghany, a. M.; ...	Human Thermal Comfort and Outdoor Urban Arid Environme		
Ahmed, Khandaker S...	Comfort in urban spaces: defin boundaries of outdoor thermal		
Akoi, Tomonori S; Oc...	Characteristics and Considerati Sweat Rate Standard of the Pr		
Ali-Toudert, F.; Maye...	Thermal comfort in an east-we street canyon in Freiburg (Germ		
Ali-Toudert, Fazia; M...	Numerical study on the effects and orientation of an urban street canyon on ...		
Alucci, Márcia Peinad...	Climate and Thermal Stress in Outdoor Spaces	2004	07/06/14
Amelung, B; Blazejcz...	CLIMATIC CHANGES IN THERMAL COMFORT AT THE ADRIATIC COAST	2007	07/06/14
Andrade, H.; Alcofor...	Microclimatic variation of thermal comfort in a district of Lisbon (Telheiras) at night	2007	Theoretical and Applied ...
Andrade, Henrique; ...	Perception of temperature and wind by users of public outdoor spaces: relationships with w...	2011	International journal of bio...
Andreas, Tzu-ping Li...	Thermal comfort and passive design strategy of bus shelters	2006	07/06/14

**Search Results:**

- Vitamin D-gene interactions in multiple sclerosis**  
Antonio J. Berlanga-Taylor; G Disanto... - 2011 - Journal of the Neurological Sciences
- Gene-microarray analysis of multiple sclerosis lesions yields new targets validated in autoimmune encephalomyel**  
Christopher Lock; G Hermans; R Pedotti... - 2002 - Nature medicine
- EVIS is a risk gene for multiple sclerosis.**  
I A Hoppenbrouwers; YS Aulchenko; GC ... - 2008 - Genes and immunity
- Gene expression profiling in multiple sclerosis brain**  
Ranjan Dutta; BD Trapp - 2012 - Neurobiology of Disease
- Mining gene expression data of multiple sclerosis**  
Pi Guo; Q Zhang; Z Zhu; Z Huang; K Li - 2014 - PLoS ONE
- Variants within the immunoregulatory CBLB gene are associated with multiple sclerosis.**  
Serena Sanna; M Pitzalis; M Zoledziev... - 2010 - Nature genetics
- Large-scale gene-expression studies and the challenge of multiple sclerosis.**  
Sergio E Baranzini; SL Hauser - 2002 - Genome biology
- Rare variants in the CYP27B1 gene are associated with multiple sclerosis**

**Details:**

Type: Generic

**Vitamin D-gene interactions in multiple sclerosis**

Authors: A. Berlanga-Taylor, G. Disanto, G. Ebers et al.

Publication: *Journal of the Neurological Sciences*

Year: 2011  
Volume: 311  
Issue: 1-2  
Pages: 32-36

Year:  
Volume:  
Issue:  
Pages:

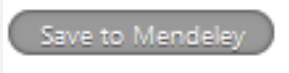
**Abstract:**

**Tags:**

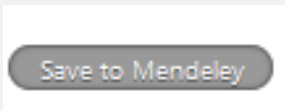
**Author Keywords:**

# Mendeley

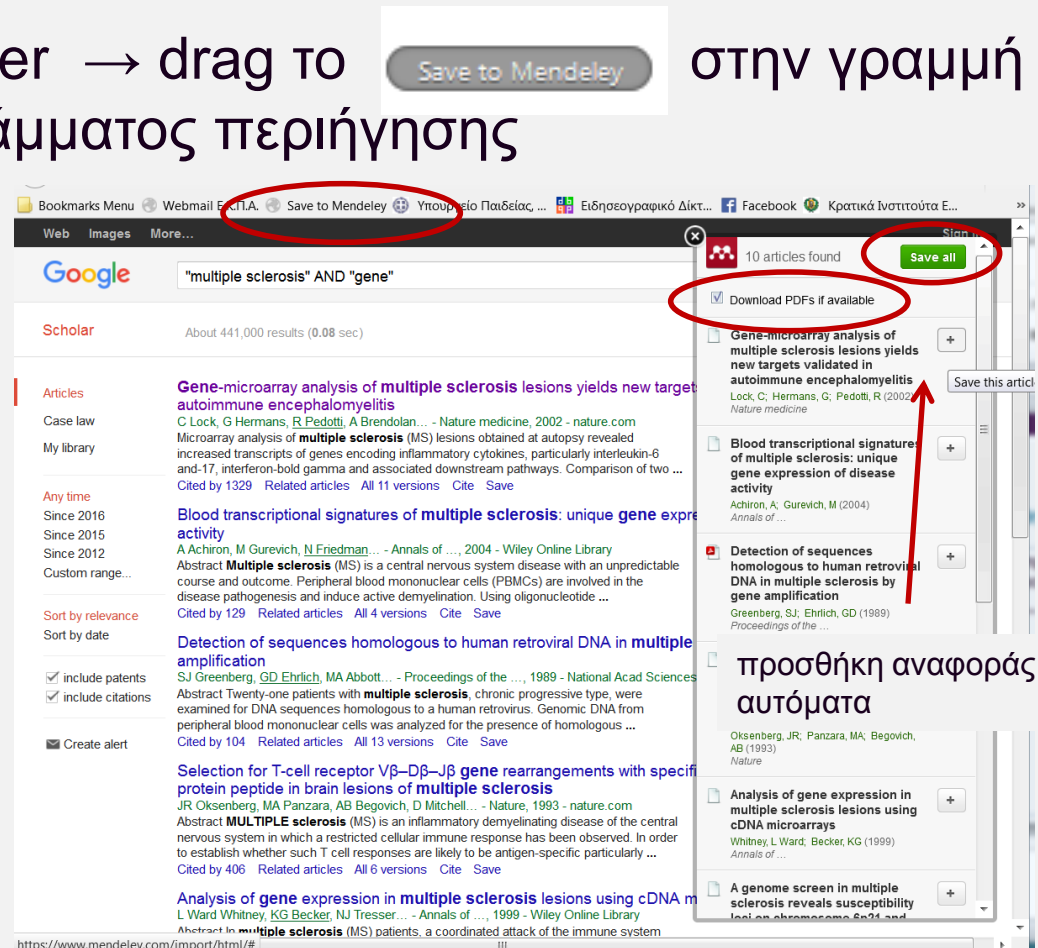
## Εισαγωγή στη βιβλιοθήκη από Google Scholar

- Mendeley Web Importer → drag το  στην γραμμή εργαλείων του προγράμματος περιήγησης

- Google Scholar → αναζήτηση όρων →



- επιλογή άρθρου →
- αυτόματη προσθήκη



The screenshot shows a Google Scholar search for "multiple sclerosis" AND "gene". The search results page is overlaid with the Mendeley Web Importer interface. The Mendeley overlay displays "10 articles found" and a "Save all" button. A red arrow points from the "Save all" button to the text "προσθήκη αναφοράς αυτόματα" (Automatic reference addition). The search results list several articles, including "Gene-microarray analysis of multiple sclerosis lesions yields new targets validated in autoimmune encephalomyelitis" and "Blood transcriptional signatures of multiple sclerosis: unique gene expression activity".

# Mendeley

## Εισαγωγή στη βιβλιοθήκη Google Scholar

Προσθήκη όρου αναζήτησης

Προσθήκη αναφορές αυτόματα

**Literature Search**

Search: "multiple sclerosis" AND gene

**Search Results**

- Vitamin D-gene interactions in multiple sclerosis**  
Antonio J. Berlanga-Taylor; G Disanto... - 2011 - Journal of the Neurological Sciences
- Gene-microarray analysis of multiple sclerosis lesions yields new targets validated in autoimmune encephalomyelitis**  
Christopher Lock; G Hermans; R Pedott... - 2002 - Nature medicine
- EVIS is a risk gene for multiple sclerosis.**  
I a Hoppenbrouwers; YS Aulchenko; GC ... - 2008 - Genes and immunity
- Gene expression profiling in multiple sclerosis brain**  
Ranjana Datta; BD Trapp - 2012 - Neurobiology of Disease
- Mining gene expression data of multiple sclerosis**  
Pi Guo; Q Zhang; Z Zhu; Z Huang; K Li - 2014 - PLoS ONE
- Variants within the immunoregulatory CBLB gene are associated with multiple sclerosis.**  
Serena Sanna; M Pitzalis; M Zoledziew... - 2010 - Nature genetics
- Large-scale gene-expression studies and the challenge of multiple sclerosis.**  
Sergio E Baranzoni; SL Hauser - 2002 - Genome biology
- Rare variants in the CYP27B1 gene are associated with multiple sclerosis**

Author	Title	Year	Journal	Date
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Ahmed, Khandaker S...	Comfort in urban spaces: defin boundaries of outdoor thermal			
Akoi, Tomonori S; Oc...	Characteristics and Considera Sweat Rate Standard of the Pr			
Ali-Toudert, F.; Maye...	Thermal comfort in an east-we street canyon in Freiburg (Gerr			
Ali-Toudert, Fazia; M...	Numerical study on the effects and orientation of an urban street canyon on ...			
Alucci, Márcia Peinad...	Climate and Thermal Stress in Outdoor Spaces	2004		07/06/14
Amelung, B; Blazejcz...	CLIMATIC CHANGES IN THERMAL COMFORT AT THE ADRIATIC COAST	2007		07/06/14
Andrade, H.; Alcofor...	Microclimatic variation of thermal comfort in a district of Lisbon (Telheiras) at night	2007	Theoretical and Applied ...	07/06/14
Andrade, Henrique; ...	Perception of temperature and wind by users of public outdoor spaces: relationships with w...	2011	International journal of bio...	07/06/14
Andreas, Tzu-ping Li...	Thermal comfort and passive design strategy of bus shelters	2006		07/06/14

**Details** | Notes | Contents | Embedments

This document is not in your library | **Save Reference**

Type: Generic

**Vitamin D-gene interactions in multiple sclerosis**

Authors: A. Berlanga-Taylor, G. Disanto, G. Ebers et al.

View research catalog entry for this paper

Publication: *Journal of the Neurological Sciences*

Year: 2011  
Volume: 311  
Issue: 1-2  
Pages: 32-36

**Abstract:**

**Tags:**

**Author Keywords:**

# Mendeley

## Εισαγωγή στη βιβλιοθήκη από Scopus

- Επιλέγουμε τα άρθρα που χρειαζόμαστε
- Export
- Save to Mendeley

- Citation information only
- Citation information only**
- Citations and abstract information
- Citations, abstract and references
- All available information
- Specify fields to be exported

The screenshot shows the Scopus search results page for the query "multiple sclerosis" AND gene. The page displays 9,142 document results. An export dialog box is open, allowing the user to choose a default reference manager or file type. The dialog box includes options for "Save to Mendeley" and "RefWorks direct export". Under "Choose the information to export", the "Citation information only" option is selected. The dialog box also lists the selected fields to be exported: Citation information, Author(s), document title, year, source title, volume, issue, pages, citation count, source and document Type, DOI.

Author Name	Year	Journal	Citations
Kassi, E., Semaniakou, A., Sertedaki, A., (...), Chrousos, G.P., Moutsatsou, P.	2016	Journal of the Neurological Sciences	0
Zhang, Z., Wang, L., Sun, X., Zhang, L., Lu, L.	2016	Journal of the Neurological Sciences	0
Yamout, B., Karaky, N.M., Mahfouz, R.A.R., (...), Hoteit, R., Daher, R.T.	2016	Journal of Neuroimmunology	0
Holmøy, T., Esbensen, Q.Y., Torkildsen, O., (...), Hovdal, H., Myhr, K.-M.	2016	Acta Neurologica Scandinavica	1
Huang, J., Yang, Y., Zhou, F., (...), Kuang, Y., Li, F.	2016	International Journal of Neuroscience	0
Rasol, H.A.A., Helmy, H., El-Mously, S., Aziz, M.A., Elbahaie, H.	2016	Annals of Clinical Biochemistry	0



# Mendeley

## Εισαγωγή στη βιβλιοθήκη από Pubmed

- Έχουμε τοποθετήσει από πριν (από το Mendeley Web Importer το στην γραμμή εργαλείων του περιηγητή
- Save to Mendeley
- Επιλέγουμε άρθρα
- Save this article ή Save all

The screenshot shows a web browser window with the PubMed website open. The search query is "multiple sclerosis" AND gene. The search results page displays a list of 6112 items, with the first five items visible. A red circle highlights the "Save to Mendeley" button in the browser's toolbar. A red arrow points from this button to the "Save all" button in the article list on the right side of the page. The article list includes titles such as "Critical Link Between Epigenetics and Transcription Factors in the Induction of Autoimmunity: a Comprehensive Review" and "Deficiency of IκB Kinase in Myeloid Cells Reduces Severity of Experimental Autoimmune Encephalomyelitis".

# Mendeley

## Εισαγωγή στη βιβλιοθήκη μη αυτόματα

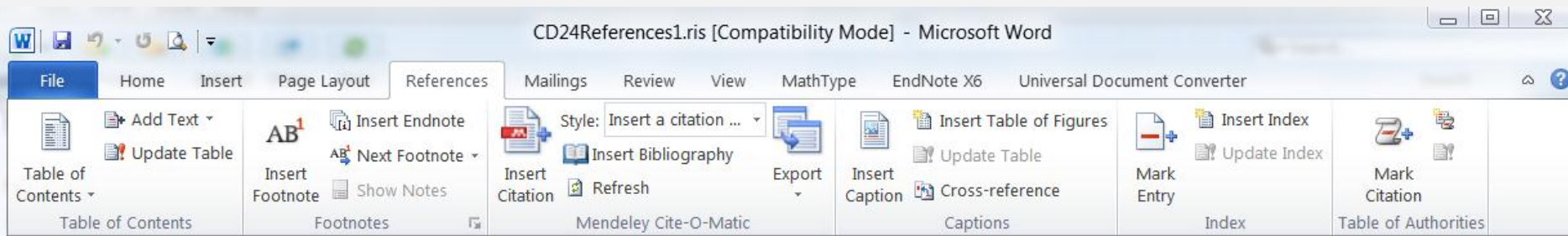
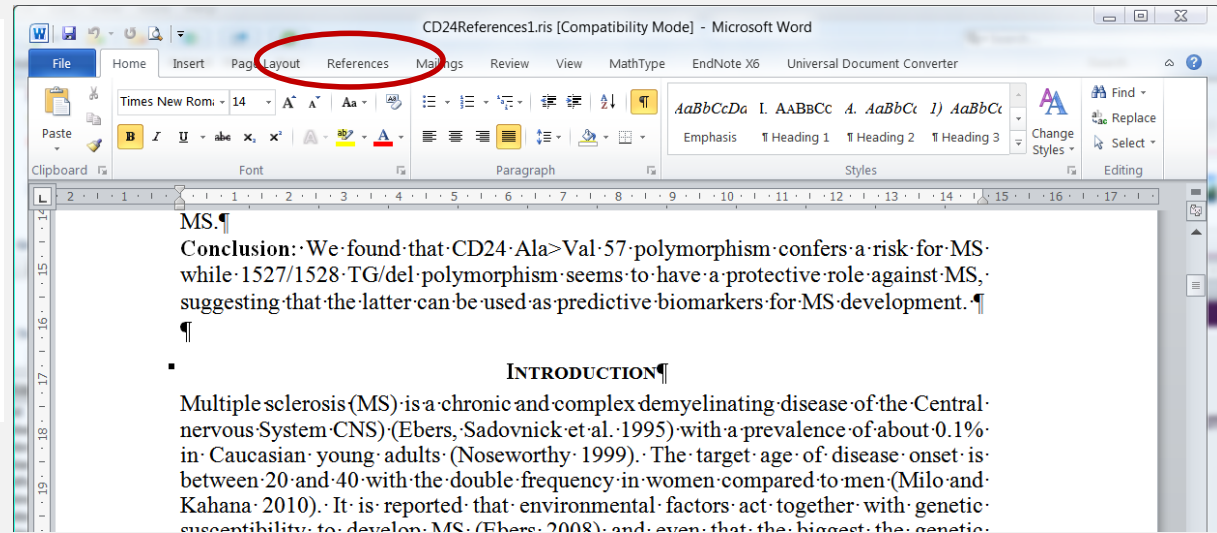
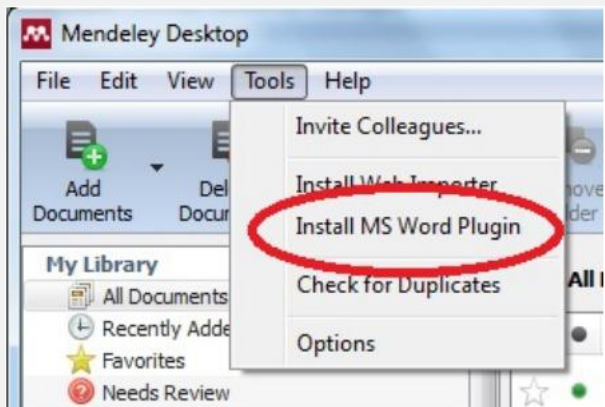
The screenshot shows the Mendeley Desktop application interface. The 'File' menu is open, and the 'Add Entry Manually...' option is circled in red. A red arrow points from this option to the 'New Document' dialog box. The dialog box is titled 'New Document' and contains the following fields and options:

- Type: Journal Article
- No Title
- Authors: Authors
- Journal:
- Year:
- Volume:
- Issue:
- Pages:
- Abstract:
- Tags:
- Author Keywords:
- URL: Add URL...
- Catalog IDs: ArXiv ID, DOI, PMID
- Files: Add File...
- Other Settings:  Unpublished work - exclude from Mendeley Web catalog

The background shows a list of documents in the Mendeley library, including titles like 'Human Thermal Comfort and Heat Stress' and 'CLIMATIC CHANGES IN THERMAL COMFORT AT THE ADRIATIC COAST'.

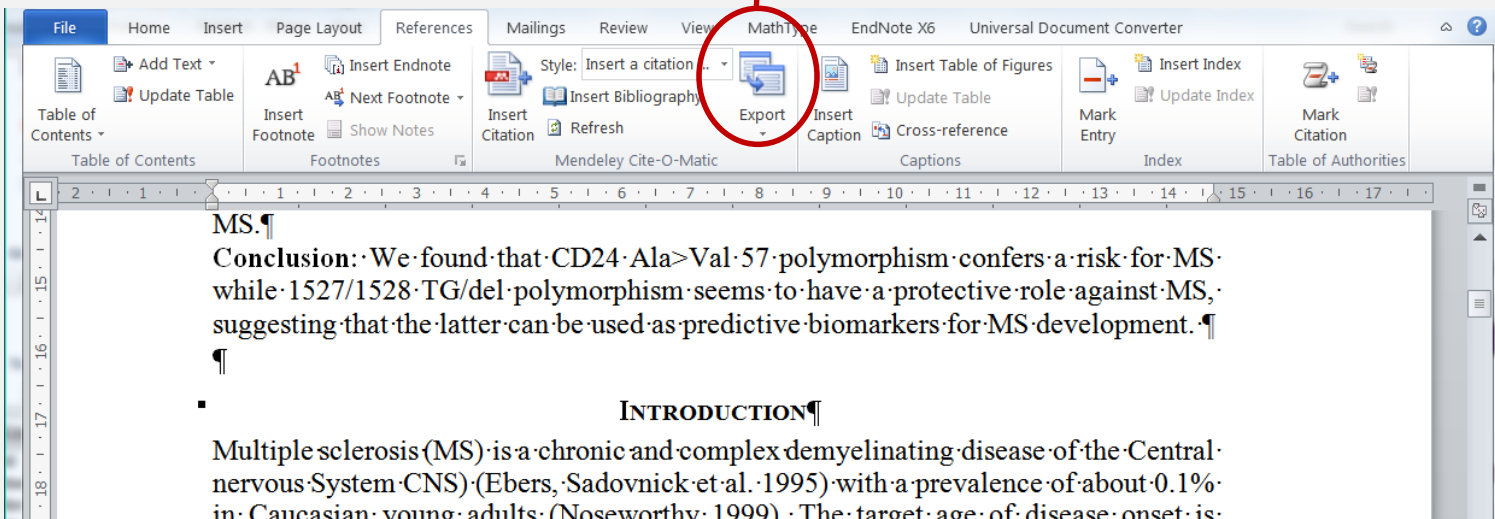
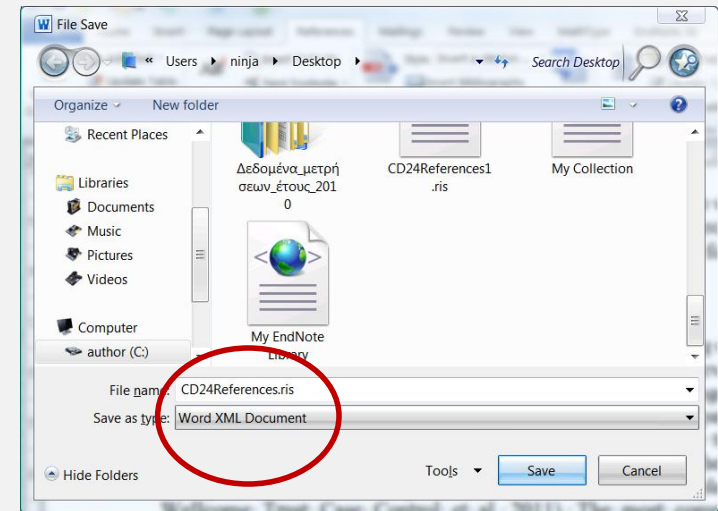
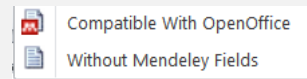
# Mendeley

## Εισαγωγή στη βιβλιοθήκη από Word



# Mendeley

## Εισαγωγή στη βιβλιοθήκη από Word



# Mendeley

## Επεξεργασία βιβλιογραφίας

- Επιλέγουμε αναφορά
- Κάνουμε τις απαραίτητες αλλαγές στο κατάλληλο πεδίο (δεξί παράθυρο)

The screenshot displays the Mendeley Desktop application window. The main area shows a list of documents under the 'CD24' group. The selected document is 'CD24 V/V is an allele associated with the risk of developing multiple sclerosis in the Spanish population' by Otaegui, D; Saenz, A... The right-hand pane shows the details of this document, including the title, authors, journal, year, volume, issue, and pages. The 'Abstract' and 'Tags' sections are also visible.

Authors	Title	Year	Published In	Added
Otaegui, D; Saenz, A...	CD24 V/V is an allele associated with the risk of developing multiple sclerosis in the Spanish po...	2006	Mult Scler	4:32pm
Piotrowski, P; Lianeri...	CD24 Ala57Val gene polymorphism and the risk of systemic lupus erythematosus	2010	Tissue Antigens	4:32pm
Poser, C M; Paty, D ...	New diagnostic criteria for multiple sclerosis: guidelines for research protocols	1983	Ann Neurol	4:32pm
Ronaghi, M; Vallian, ...	CD24 gene polymorphism is associated with the disease progression and susceptibility to multi...	2009	Psychiatry Res	4:32pm
Rueda, B; Miranda-F...	Association of CD24 gene polymorphisms with susceptibility to biopsy-proven giant cell arteritis	2008	J Rheumatol	4:32pm
Sanchez, E; Abelson...	Association of a CD24 gene polymorphism with susceptibility to systemic lupus erythematosus	2007	Arthritis Rheum	4:32pm
Sanchez, E; Fernand...	Investigating the role of CD24 gene polymorphisms in rheumatoid arthritis	2008	Ann Rheum Dis	4:32pm
Wang, L; Lin, S; Ram...	A dinucleotide deletion in CD24 confers protection against autoimmune diseases	2007	PLoS Genet	4:32pm
Zhou, Q; Guo, Y; Liu, Y	Regulation of the stability of heat-stable antigen mRNA by interplay between two novel cis ele...	1998	Mol Cell Biol	4:32pm
Zhou, Q; Rammohan...	CD24 is a genetic modifier for risk and progression of multiple sclerosis	2003	Proc Natl Acad Sci U S A	4:32pm
Zhou, Q; Wu, Y; Niels...	Homotypic interaction of the heat-stable antigen is not responsible for its co-stimulatory activit...	1997	Eur J Immunol	4:32pm

**Details** | Notes | Contents | Enrichments

Type: Journal Article

**CD24 V/V is an allele associated with the risk of developing multiple sclerosis in the Spanish population**

Authors: D. Otaegui, A. Saenz, P. Camano et al.

[View research catalog entry for this paper](#)

Journal: *Mult Scler*

Year: 2006

Volume: 12

Issue:

Pages: 511-514

**Abstract:**

**Tags:**

**Author Keywords:**  
Adult Antigens; CD24/\*genetics European

1 of 47 documents selected

# Mendeley

## Εισαγωγή βιβλιογραφίας σε Word

- Βάζουμε τον κέρσορα εκεί που θέλουμε να εισάγουμε την αναφορά → Insert Citation
- Επιλέγουμε το Group που θέλουμε να ψάξουμε
- Πληκτρολογούμε όνομα συγγραφέα, έτος ή τίτλο άρθρου

CD24References1.ris [Compatibility Mode] - Microsoft Word

File Home Insert Page Layout References Mailings Review View MathType EndNote X6 Universal Document Converter

Table of Contents Update Table Insert Endnote Next Footnote Insert Bibliography Insert Citation Refresh Export Insert Caption Cross-reference Mark Entry Mark Citation

resulting association.¶  
 Results: CD24 Ala>Val model of inheritance. 1 MS under dominant mo contrary, no association MS.¶  
 Conclusion: We found that CD24 Ala>Val 37 polymorphism confers a risk for MS while 1527/1528 TG/del polymorphism seems to have a protective role against MS, suggesting that the latter can be used as predictive biomarkers for MS development.¶  
 ¶

INTRODUCTION¶  
 Multiple sclerosis (MS) is a chronic and complex demyelinating disease of the Central nervous System (CNS) (Ebers, Sadovnick et al. 1995) with a prevalence of about 0.1% in Caucasian young adults (Noseworthy 1999). The target age of disease onset is between 20 and 40 with the double frequency in women compared to men (Milo and Kahana 2010). It is reported that environmental factors act together with genetic susceptibility to develop MS (Ebers 2008) and even that the biggest the genetic

2ος τρόπος:

Επιλέγουμε από την βιβλιοθήκη

Go to Mendeley

Help

ated Share Sync Cite Cancel

CD24, owned by you Edit Settings

Overview Documents Members

Authors	Title
Bagos, Pantelis G	On the covariance o ratios.
Bagos, Pantelis G	A unification of mult

# Mendeley

## Επιλογή στυλ βιβλιογραφίας σε Word

The screenshot shows the Microsoft Word interface with the Mendeley Cite-O-Matic ribbon active. A red box highlights the 'Style: Insert a citation ...' dropdown menu, which is open to show a list of citation styles. A red arrow points from the dropdown menu to the list of styles.

The list of styles includes:

- American Medical Association
- American Political Science Association
- American Psychological Association 6th edition
- Chicago Manual of Style 16th edition (author-date)
- Harvard Reference format 1 (author-date)
- IEEE
- Modern Humanities Research Association 3rd edition (note with bibliography)
- Modern Language Association 7th edition
- National Library of Medicine
- Nature
- More Styles...

The main document text is as follows:

for their association with MS.¶

**Methods:** Univariate and multivariate meta-analysis were applied along with modifications to include data from family-trios so as to increase the power of the resulting association.¶

**Results:** CD24·Ala>Val·57·polymorphism is associated with MS under the recessive model of inheritance. 1527/1528·TG/del polymorphism is inversely associated with MS under dominant mode of inheritance denoting a protective role against MS. On the contrary, no associations exist for the 1056·A/G and 1626·A/G polymorphisms with MS.¶

**Conclusion:** We found that CD24·Ala>Val·57·polymorphism confers a risk for MS while 1527/1528·TG/del polymorphism seems to have a protective role against MS, suggesting that the latter can be used as predictive biomarkers for MS development.¶

¶

▪

**INTRODUCTION¶**

Multiple sclerosis (MS) is a chronic and complex demyelinating disease of the Central nervous System (CNS) (Ebers, Sadovnick et al. 1995) with a prevalence of about 0.1% in Caucasian young adults (Noseworthy 1999). The target age of disease onset is between 20 and 40 with the double frequency in women compared to men (Milo and Kahana 2010). It is reported that environmental factors act together with genetic susceptibility to develop MS (Ebers 2008) and even that the biggest the genetic susceptibility the lowest age at onset (International Multiple Sclerosis Genetics, Wellcome Trust Case Control et al. 2011). The most common genetic variants

# Μεθοδολογία της Έρευνας

## Σύνοψη

### Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας και Βιβλιογραφικές βάσεις

Αναζήτηση βιβλιογραφίας βάσει όρων ή ονόματος συγγραφέα  
Δημιουργία προσωπικής βιβλιοθήκης  
Εξαγωγή αποτελεσμάτων σε αρχεία



### Συστήματα οργάνωσης και διαχείρισης βιβλιογραφίας

Δημιουργία βιβλιοθήκης  
Διαχείριση εγγράφων και αναφορών  
Αναφορά και διαμοιρασμός εγγράφων

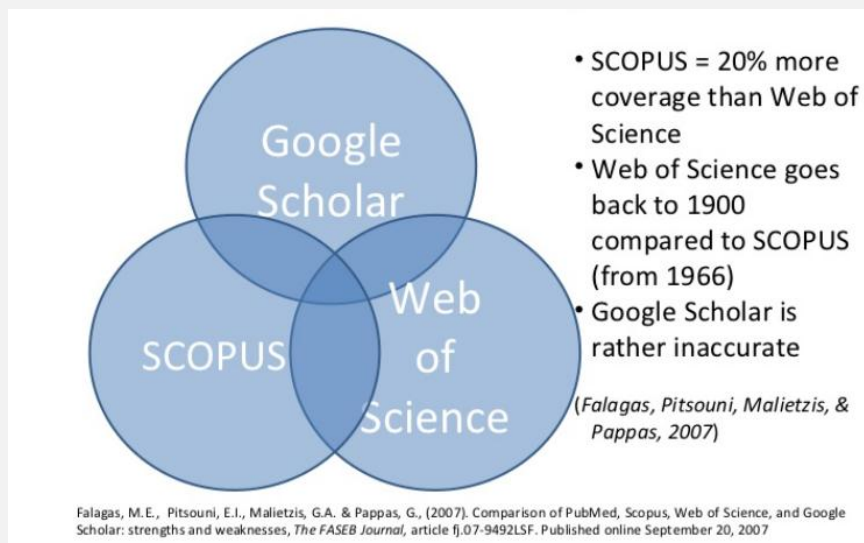




# Μεθοδολογία της Έρευνας

## Μηχανές αναζήτησης επιστημονικής βιβλιογραφίας και Βιβλιογραφικές βάσεις

Δεν υπάρχει τέλεια μηχανή αναζήτησης ή βάση



# Μεθοδολογία της Έρευνας

Συστήματα οργάνωσης και διαχείρισης βιβλιογραφίας



Δεν υπάρχει κάποιο τέλει εργαλείο

Κριτήρια επιλογής:

- Τι χρησιμοποιούν οι συνεργάτες μας;  
!!! Μπορεί να πραγματοποιηθεί μεταφορά αρχείων από το ένα σύστημα στο άλλο
- Τι μας βολεύει καλύτερα; Ποιο μπορούμε να χρησιμοποιήσουμε με μεγαλύτερη ευκολία

... και μην ξεχνάτε

