



Taller: Nuevos indicadores de
rendimiento científico basados en
análisis de citas.

TEMA 3: La Web of Science como
fuente de evaluación

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Universidad Carlos III de Madrid





Nuevos indicadores de rendimiento científico basados en análisis de citas

La Web of Science como fuente de evaluación

- ☐ **Descripción de los recursos incluidos en WoS**
- ☐ **Ventajas e inconvenientes de la WoS**
- ☐ **Presentación de las guías de la WoS**
- ☐ **Presentación el Essential Science Indicators**



Descripción de los recursos de WoS

Fuentes de mayor interés para las búsquedas bibliográficas (WoK)

Bases de datos

Web of Knowledge

Plataforma basada en tecnología web formada por bases de datos bibliográficas, de citas y referencias de publicaciones científicas desde 1945

Citas y actualización

Web of Science

Productos especializados

ISI Proceedings
Derwent Innovations Index

Análisis y evaluación

Web of Science
Journal Citation Reports
Essential Science Indicators





Descripción de los recursos de WoS

Web of Science consiste de tres bases de datos separadas que pueden utilizarse por separado o conjuntamente:

	Revistas Incluidas	Nuevos Regis- tros Semanales	Nuevas Referencias Citadas Semanalmente
Science Citation Index Expanded	7.181	241.004	455.900
Social Sciences Cita- tion Index	2.169	3.033	71.400
Arts and Humanities Ci- tation Index	1.228	1.925	16.500





Descripción de los recursos de WoS

The screenshot shows the ISI Web of Knowledge v.4.10 interface. The browser window has tabs for 'Universidad Carlos III de Madrid - Cam...', 'Biblioteca', and 'ISI Web of Knowledge [v.4.10]'. The page has a green header with the 'ISI Web of Knowledge' logo. Below the header is a navigation bar with tabs: 'All Databases', 'Select a Database', 'Web of Science', and 'Additional Resources'. The 'Web of Science' tab is selected. The main content area is titled 'Use the "All Databases" tab above to search all databases, or select a single database from the list below.' It lists several databases: 'Web of Science' (1899-present), 'MEDLINE' (1950-present), 'Journal Citation Reports', and 'Derwent Innovations Index'. Each database entry includes a brief description and a list of features or editions. On the right side, there is a sidebar with the 'FECYT Consortium Academic Group' logo and a section titled 'Looking for ISI Proceedings?' which provides information on finding conference proceedings. Below this, there is a section 'Why select only one database?' and 'Target your search'. At the bottom of the sidebar, there is a section 'Other Tools' with 'Scientific WebPlus'.

ISI Web of KnowledgeSM

All Databases | Select a Database | Web of Science | Additional Resources

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Web of Science[®] (1899-present)
NOTICE: Your organization does not receive data updates to some databases in this product, as of the date(s) indicated. [More information.](#)
Access the world's leading scholarly literature in the sciences, social sciences, arts, and humanities and examine proceedings of international conferences, symposia, seminars, colloquia, workshops, and conventions.
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- Navigate with cited reference searching and Author Finder
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Your edition(s):

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- Social Sciences Citation Index (1956-present)
- Arts & Humanities Citation Index (1975-present)
- Conference Proceedings Citation Index- Science (1990-2009)
- Conference Proceedings Citation Index- Social Science & Humanities (1990-2009)
- Current Chemical Reactions (1986-2009)
(includes Institut National de la Propriété Industrielle structure data back to 1840)
- Index Chemicus (1993-2009)

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Value-added patent information from *Derwent World Patent Index*® as well as patent citation information from *Patents Citation Index*®.
[\[more\]](#)

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The U.S. National Library of Medicine® (NLM®) premier life sciences database.
[\[more\]](#)

Journal Citation Reports[®]
Journal performance metrics offer a systematic, objective means to critically evaluate the world's leading journals
[\[more\]](#)

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Why select only one database?
Target your search
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Other Tools
Scientific WebPlus
Find scientifically relevant Web content fast! Search the open Web and quickly see the most relevant content for the topics you care about, with *Scientific WebPlus*.





Descripción de los recursos de WoS

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DISCOVER

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Journal performance metrics offer a systematic, objective means to critically evaluate the world's leading journals

- Delivers quantifiable statistical information based on citation data
- Provides a variety of impact and influence metrics, including the Journal Impact Factor and *Eigenfactor*TM
- Includes rank-in-category tables, journal self-citations, and Impact Factor boxplots

Essential Science IndicatorsSM

In-depth analytical tool offering data for ranking scientists, institutions, countries, and journals.

- Explore science performance statistics and science trends data, based on journal article publication counts and citation data
- Determine research output and impact in specific fields of research
- Evaluate potential employees, collaborators, reviewers, and peers

Web Search Tools:

Scientific WebPlus

Find scientifically relevant Web content fast! Search the open Web and quickly see the most relevant content for the topics you care about, with *Scientific WebPlus*.

Web Sites:

ISI HighlyCited.comSM

This free, expert gateway uses citation data to deliver comprehensive information about the most significant scientists and scholars publishing today.

BiologyBrowser

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Descripción de los recursos de WoS

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Search for:

in **Topic**

Example: oil spill mediterranean*

AND in **Author**

Example: O'Brian C OR O'Brian C**
Need help finding papers by an author? Use [Author Finder](#).

AND in **Publication Name**

Example: Cancer OR Journal of Cancer Research and Clinical Oncology*

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- ☒ Arts & Humanities Citation Index (A&HCI) --1975-present
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- ☒ **NEW!** Conference Proceedings Citation Index- Social Science & Humanities (CPCI-SSH) --1990-2009

Chemical Databases:

- ☒ Current Chemical Reactions (CCR-EXPANDED)--1986-2009
(includes Institut National de la Propriete Industrielle structure data back to 1840)
- ☒ Index Chemicus (IC)--1993-2009





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in
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AND in
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Results Topic=(pulmonary carcinoma) AND Year Published=(2007-2010) AND Address=(Spain or Espana)
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Search within results for **Search**

▼ **Subject Areas** **Refine**

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▼ **Document Types** **Refine**

- ☐ ARTICLE (74)
- ☐ REVIEW (9)
- ☐ MEETING ABSTRACT (4)
- ☐ LETTER (3)
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☐ CASAL, J (2)	☐ AJONA, D (1)	☐ ANDREW, AS (1)	☐ BALLESTERO, TD (1)
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☐ GARCIA-YUSTE, M (2)	☐ ALARCON, JP (1)	☐ ARCA, JA (1)	☐ BATALLER, R (1)





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Timespan=All Years. Databases=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, CCR-EXPANDED, IC.
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- ☐ MULTIDISCIPLINARY SCIENCES (34)
- ☐ GENETICS & HEREDITY (28)

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- ☐ MEETING ABSTRACT (39)
- ☐ REVIEW (15)
- ☐ NOTE (9)
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Authors

Source Titles

Publication Years

- ☐ 1. Title: [Loss of nuclear receptor RXR alpha in epidermal keratinocytes promotes the formation of Cdk4-activated invasive melanomas](#)
Author(s): Hyter S, Bajaj G, Liang XB, et al.
Source: **PIGMENT CELL & MELANOMA RESEARCH** Volume: 23 Issue: 5 Pages: 635-648 Published: OCT 2010
Times Cited: 0
[Context Sensitive Links](#)
- ☐ 2. Title: [A Synthetic Lethal Interaction between K-Ras Oncogenes and Cdk4 Unveils a Therapeutic Strategy for Non-small Cell Lung Carcinoma](#)
Author(s): Puyol M, Martin A, Dubus P, et al.
Source: **CANCER CELL** Volume: 18 Issue: 1 Pages: 63-73 Published: JUL 13 2010
Times Cited: 4
[Context Sensitive Links](#)
- ☐ 3. Title: [DYRK1B-dependent autocrine-to-paracrine shift of Hedgehog signaling by mutant RAS](#)
Author(s): Lauth M, Bergstrom A, Shimokawa T, et al.
Source: **NATURE STRUCTURAL & MOLECULAR BIOLOGY** Volume: 17 Issue: 6 Pages: 718-U90 Published: JUN 2010
Times Cited: 0
[Context Sensitive Links](#)
- ☐ 4. Title: [Genetic analysis of Ras signalling pathways in cell proliferation, migration and survival](#)
Author(s): Drosten M, Dhawahir A, Sum EYM, et al.
Source: **EMBO JOURNAL** Volume: 29 Issue: 6 Pages: 1091-1104 Published: MAR 17 2010
Times Cited: 3
[Context Sensitive Links](#)
- ☐ 5. Title: [Targeting the cell cycle in cancer](#)
Author(s): Barbacid M
Conference Information: 15th Congress of the European-Cancer-Organization/34th Multidisciplinary Congress of the European-Society-for-Medical-Oncology, SEP 20-24 2009 Berlin, GERMANY





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THE TRK FAMILY OF NEUROTROPHIN RECEPTORS

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Author(s): BARBACID M

Source: JOURNAL OF NEUROBIOLOGY Volume: 25 Issue: 11 Pages: 1386-1403 Published: NOV 1994

Times Cited: 819 References: 86 Citation Map

Abstract: Accumulating evidence indicates that the Trk family of tyrosine protein kinase receptors, Trk (also known as TrkA), TrkB, and TrkC, are responsible for mediating the trophic effects of the NGF family of neurotrophins. Nerve growth factor (NGF) specifically recognizes Trk, a receptor identified in all major NGF targets, including sympathetic, trigeminal, and dorsal root ganglia as well as in cholinergic neurons of the basal forebrain and the striatum. Brain-derived neurotrophic factor (BDNF) and neurotrophin-4 (NT3) specifically activate the TrkB tyrosine kinase receptor. trkB transcripts encoding this receptor are found throughout multiple structures of the central and peripheral nervous system. Neurotrophin-3 (NT-3) primarily activates the TrkC tyrosine protein kinases, four related isoforms encoded by alternative splicing of trkC, a gene also widely expressed throughout the mammalian nervous system. Unlike the other neurotrophins, NT-3 appears to be somewhat promiscuous since it can activate Trk and TrkB kinase receptors, at least in certain cell systems. The trkB and trkC genes also encode noncatalytic neurotrophin receptor isoforms of an as yet, unknown function. Recently, strains of mice lacking each of these tyrosine kinase receptors have been generated. Preliminary characterization of these mutant mice has provided significant information regarding the role of these receptors in the ontogeny of the mammalian nervous system. For instance, mice deficient for Trk receptors lack most sympathetic neurons and do not display nociceptive and temperature sensations, two defects likely to result from severe neuronal cell loss in their trigeminal and dorsal root ganglia. Mice lacking TrkB tyrosine kinase receptors die postnatally due to their inability to intake food. Neuron cell loss in their trigeminal, nodose and petrosal sensory ganglia as well as in the facial motor nucleus are likely to contribute to this phenotype. Finally, TrkC-deficient mice display strikingly abnormal movements consistent with loss of proprioception, a defect likely to be a consequence of the complete loss of Ia muscle efferents observed in this mutant mice. (C) 1994 John Wiley & Sons, Inc.

Document Type: Article

Language: English

Author Keywords: NEUROTROPHINS; NERVE GROWTH FACTOR; BRAIN-DERIVED NEUROTROPHIC FACTOR; TRK; TYROSINE KINASE RECEPTORS; KNOCK OUT MICE

KeyWords Plus: NERVE GROWTH-FACTOR; TYROSINE PROTEIN-KINASE; AFFINITY NGF RECEPTOR; DORSAL-ROOT GANGLION; PROTOONCOGENE PRODUCT; MESSENGER-RNAS; PC12 CELLS; RAT TRKC; PHOSPHOLIPASE C-GAMMA-1; DIFFERENTIAL RESPONSE

Reprint Address: BARBACID, M (reprint author), BRISTOL MYERS SQUIBB PHARMACEUT RES INST, DEPT MOLEC BIOL, POB 4000, PRINCETON, NJ 08543 USA

Publisher: JOHN WILEY & SONS INC, 605 THIRD AVE, NEW YORK, NY 10158-0012

Subject Category: Neurosciences

IDS Number: PL684

ISSN: 0022-3034

Cited by: 819
This article has been cited 819 times (from Web of Science).
Cassens C, Kleene R, Xiao MF, et al. Binding of the Receptor Tyrosine Kinase TrkB to the Neural Cell Adhesion Molecule (NCAM) Regulates Phosphorylation of NCAM and NCAM-dependent Neurite Outgrowth JOURNAL OF BIOLOGICAL CHEMISTRY 285 37 28959-28967 SEP 10 2010
Kleene R, Cassens C, Bähring R, et al. Functional Consequences of the Interactions among the Neural Cell Adhesion Molecule NCAM, the Receptor Tyrosine Kinase TrkB, and the Inwardly Rectifying K+ Channel KIR3.3 JOURNAL OF BIOLOGICAL CHEMISTRY 285 37 28968-28979 SEP 10 2010
Ricci A, Mariotta S, Pompili E, et al. Neurotrophin system activation in pleural effusions GROWTH FACTORS 28 4 221-231 AUG 2010

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Step 1: Enter the author's name, the work's source, and/or publication year.

Cited Author: 
Example: O'Brian C OR O'Brian C**

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*Example: J Comput Appl Math**
[journal abbreviation list](#)

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Example: 1943 or 1943-1945

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Hint: Look for [cited reference variants](#) (sometimes different pages of the same article are cited or papers are cited incorrectly).

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References: 1 - 14 of 14

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Select	Cited Author	Cited Work [SHOW EXPANDED TITLES]	Year	Volume	Page	Article ID	Citing Articles **	View Record
☐	...Barbacid M	ANN ONCOL	2008	19	1519	DOI 10.1093/annonc/mdn426	2	View Record
☐	...Barbacid M	CANCER CELL	2007	11	291	DOI 10.1016/j.ccr.2007.01.012	91	View Record
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☐	...Barbacid M	CURR OPIN GENET DEV	2007	17	60	DOI 10.1016/j.gde.2006.12.008	74	View Record
☐	...Barbacid M	J CELL BIOL	2009	187	773	DOI 10.1083/jcb.200903033	3	View Record
☐	...Barbacid M	J CLIN INVEST	2008	118	2169	DOI 10.1172/JCI34388	15	View Record
☐	...Barbacid M	J PATHOL	2009	219	205	DOI 10.1002/path.2585	3	View Record
☐	...Barbacid M	MOL CARCINOGEN	2009	48	1038	DOI 10.1002/mc.20555	1	View Record
☐	...Barbacid M	MOL CELL NEUROSCI	2008	37	519	DOI 10.1016/j.mcn.2007.11.005	5	View Record
☐	...Barbacid M	MOL ONCOL	2007	1	72		14	View Record
☐	...Barbacid M	NAT GENET	2007	39	750	DOI 10.1038/ng2037	68	View Record
☐	...Barbacid M	NAT REV CANCER	2009	9	153	DOI 10.1038/nrc2602	122	View Record
☐	...Barbacid M	NATURE	2007	448	811	DOI 10.1038/nature06046	99	View Record
☐	...Barbacid M	TRENDS PHARMACOL SCI	2008	29	16	DOI 10.1016/j.tips.2007.10.012	53	View Record

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Descripción de los recursos de WoS

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	2007	2008	2009	2010	2011	Total	Average Citations per Year
1. Title: RAS GENES Author(s): BARBACID M Source: ANNUAL REVIEW OF BIOCHEMISTRY Volume: 56 Pages: 779-827 Published: 1987	1087	1251	1291	1345	48	35,056	898.87
2. Title: THE TRK PROTOONCOGENE ENCODES A RECEPTOR FOR NERVE GROWTH-FACTOR Author(s): KLEIN R, JING SQ, NANDURI V, et al. Source: CELL Volume: 65 Issue: 1 Pages: 189-197 Published: APR 5 1991	48	61	51	53	4	4,089	163.56
3. Title: A POINT MUTATION IS RESPONSIBLE FOR THE ACQUISITION OF TRANSFORMING PROPERTIES BY THE T24 HUMAN	13	11	15	7	0	1,151	54.81





Descripción de los recursos de WoS

Problemas que se plantean con la WoS

- ☐ Número de fuentes recogidas
- ☐ Sesgos en idiomas y países
- ☐ Campo autor: Falta de normalización en el campo autor Homónimos y sinónimos
- ☐ Confusión en la localización geográfica
- ☐ Búsquedas temáticas



Presentación el Essential Science Indicators

Introducción de Essential Science Indicators

Essential Science Indicators es una compilación global y exclusiva de estadísticas sobre el desempeño científico y de datos sobre tendencias de la ciencia, derivados de las bases de datos de Web of Science. *Essential Science Indicators* utiliza datos de citas recopilados de las publicaciones incluidas en los índices de ISI, a fin de clasificar autores, instituciones, países y publicaciones.

- *Essential Science Indicators* es un archivo dinámico que abarca la última década de datos.
- Se actualiza cada dos meses.
- En el análisis de datos se incluyen artículos, reseñas, documentos de reuniones y notas de investigación (9,5 millones de artículos) provenientes de más de 10.500 publicaciones que figuran en los índices de Web of Science.





Presentación el Essential Science Indicators

Usos de Essential Science Indicators

Essential Science Indicators permite realizar análisis complejos de literatura científica que le asistirán para:

- Evaluar el rendimiento de la investigación de personas, instituciones, países y publicaciones. Entre las clases de análisis figuran los siguientes:
 - Identificar a los investigadores o instituciones de primera línea en un campo o disciplina específicas.
 - Determinar áreas importantes de investigación que se desarrollan en universidades o instituciones específicas.
- Identificar tendencias significativas y áreas emergentes de investigación.
- Clasificar países, publicaciones, científicos, documentos e instituciones de primera línea por campo de investigación.
- Identificar valores de referencias de citas (Baselines)
 - Evaluar posibles empleados, colaboradores, críticos y colegas.
- Determinar quién publica los documentos más importantes o relevantes en un determinado campo





Journal Citation Reports



Introducción de Journal Citation Reports

Journal Citation Reports (JCR) es una base de datos que ofrece un amplio espectro de aplicaciones prácticas para los profesionales de la información. Presenta datos estadísticos que permiten una manera sistemática y objetiva de determinar la importancia relativa de revistas dentro de sus categorías temáticas.

	Edición de Ciencias	Edición de Ciencias Sociales
Frecuencia:	Anual	Anual
Número de revistas cubiertas:	7.387	2.257
Número de categorías (disciplinas)	171	55

