

BIOINFORMATICS

(FOR COMPUTER SCIENTISTS)

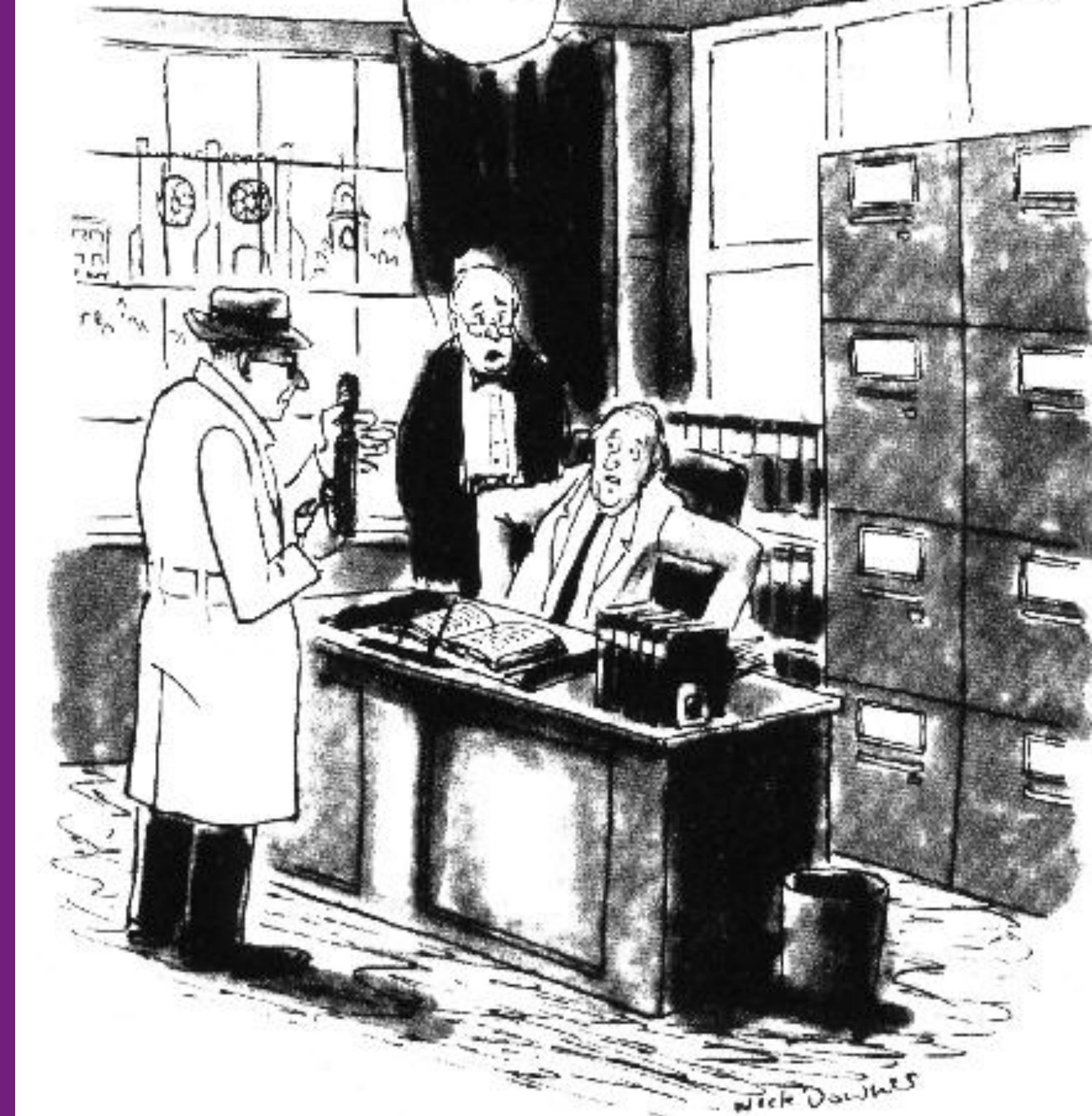
MPCS56420
SPRING 2020
SESSION 2



SYSTEMATIC LITERATURE SEARCH

SYSTEMATIC LITERATURE SEARCH

- The most important databases in bioinformatics are literature database
 - Publish or perish!

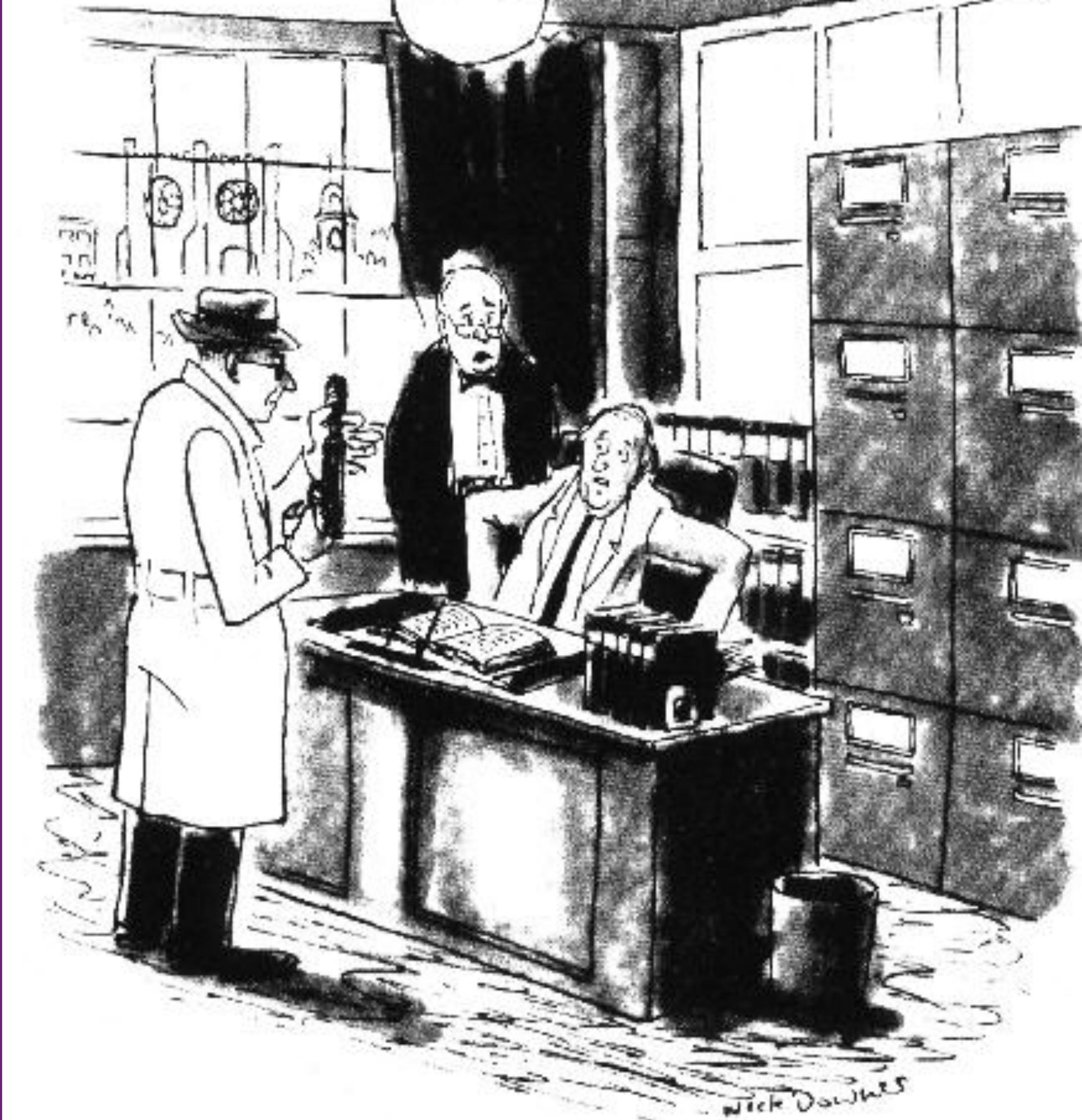


SYSTEMATIC LITERATURE SEARCH



SYSTEMATIC LITERATURE SEARCH

- All research begins with a survey
 - See what others are doing
 - Competition
 - Proof of concept
 - Save time, energy
 - Identify collaborators



SYSTEMATIC LITERATURE SEARCH

- Most useful for bioinformatics research
 - PubMed (<http://www.ncbi.nlm.nih.gov/pubmed>)
 - PubMed Central (PMC) (<http://www.ncbi.nlm.nih.gov/pmc/>)
 - Google Scholar (<http://scholar.google.com>)

SYSTEMATIC LITERATURE SEARCH

- PubMed (<http://www.ncbi.nlm.nih.gov/pubmed>)
 - More than 24 million citations for biomedical literature from MEDLINE, life science journals, and online books
 - Citations may include links to full-text content from PubMed Central and publisher web sites.

NCBI Resources How To Search Help

PubMed.gov PubMed Advanced

PubMed

US National Library of Medicine
National Institutes of Health

PubMed

PubMed comprises more than 24 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

Using PubMed

- [PubMed Quick Start Guide](#)
- [Full Text Articles](#)
- [PubMed FAQs](#)
- [PubMed Tutorials](#)
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PubMed Tools

- [PubMed Mobile](#)
- [Single Citation Matcher](#)
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- [Clinical Queries](#)
- [Topic-Specific Queries](#)

More Resources

- [MeSH Database](#)
- [Journals in NCBI Databases](#)
- [Clinical Trials](#)
- [E-Utilities \(API\)](#)
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You are here: NCBI > Literature > PubMed Write to the Help Desk

GETTING STARTED	RESOURCES	POPULAR	FEATURED	NCBI INFORMATION
NCBI Education	Chemicals & Bioassays	PubMed	Genetic Testing Registry	About NCBI
NCBI Help Manual	Data & Software	Bookshelf	PubMed Health	Research at NCBI
NCBI Handbook	DNA & RNA	PubMed Central	GenBank	NCBI News
Training & Tutorials	Domains & Structures	PubMed Health	Reference Sequences	NCBI FTP Site
	Genes & Expression	BLAST	Gene Expression Omnibus	NCBI on Facebook
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- PubMed Central (PMC) (<http://www.ncbi.nlm.nih.gov/pmc/>)
 - PMC is a free full-text archive of biomedical and life sciences journal literature at the U.S. National Institutes of Health's National Library of Medicine (NIH/NLM)

NCBI Resources How To Search Help

PMC US National Library of Medicine National Institutes of Health

PMC Journal List Limits Advanced

PubReader

A whole new way to read scientific literature at PubMed Central

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Other Resources

[PMC International](#)

[Open Access Subset](#)

[E-utilities](#)

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3.2 MILLION Articles
are archived in PMC.
Content provided in part by:

1561	294	2702
<i>Full Participation Journals</i>	<i>NIH Portfolio Journals</i>	<i>Selective Deposit Journals</i>

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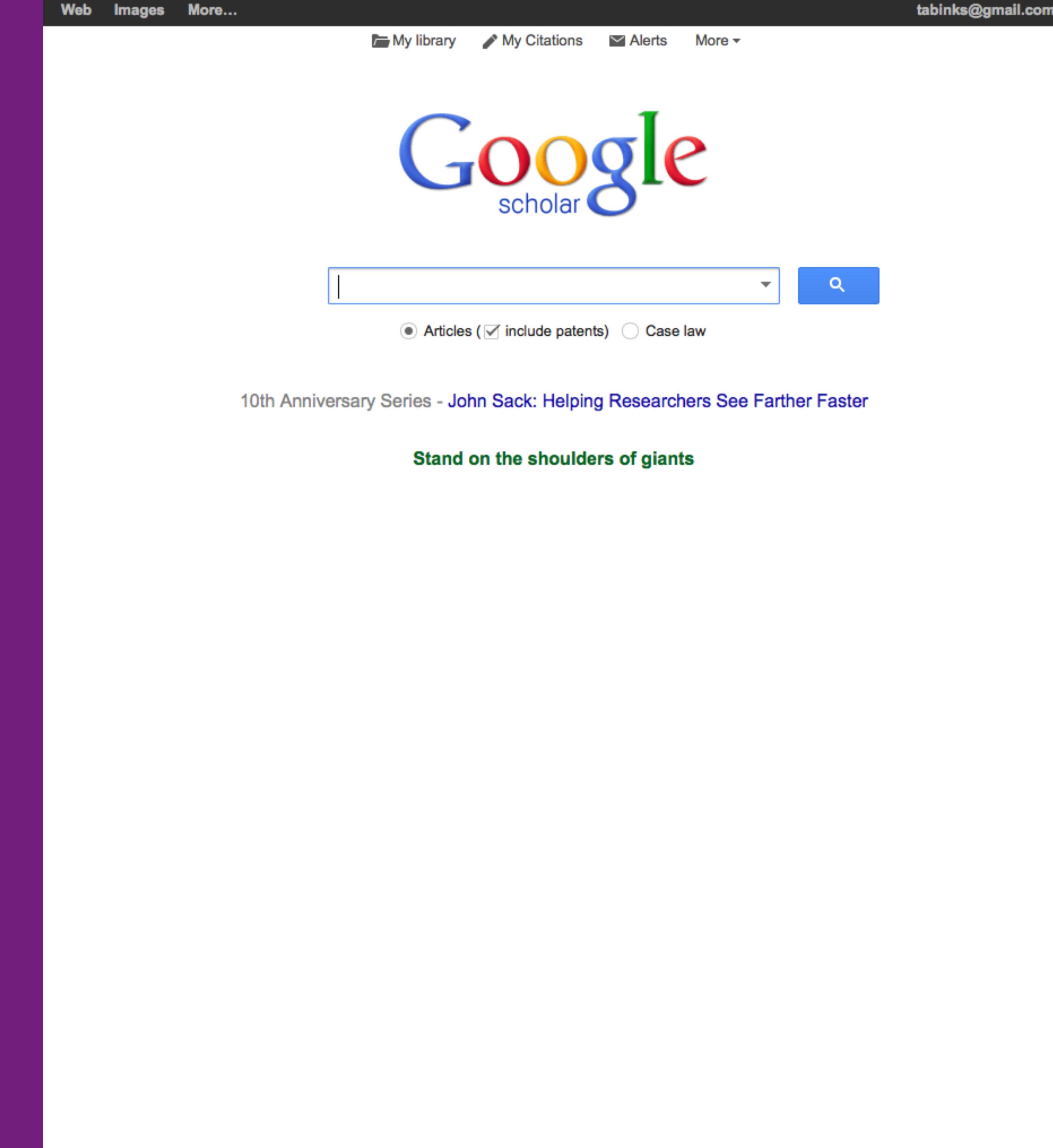
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SYSTEMATIC LITERATURE SEARCH

- Google Scholar provides a simple way to broadly search for scholarly literature
 - Articles, theses, books, abstracts and court opinions, from academic publishers, professional societies, online repositories, universities and other web sites
- “Stand on the shoulders of giants”



PUBLISHING

RESEARCH

PUBLISHING RESEARCH

AT A RECENT CONFERENCE IN CAMBRIDGE, I MET NATURE'S ONLINE PUBLISHING DIRECTOR, TIMO HANNAY.



IN HIS PRESENTATION, TIMO CANDIDLY DESCRIBES THE BUSINESS OF NATURE:

- ① BASICALLY, SCIENTISTS GIVE US THEIR WORK FOR FREE...
- ② ...THEN WE HAVE VOLUNTEER SCIENTISTS REVIEW IT FOR US FOR FREE...



- ③ ...THEN WE BUNDLE IT ALL UP AND SELL IT BACK TO THEM FOR A PROFIT.

IT SOUNDS OUTRAGEOUS, BUT SCIENTISTS WILL DO IT BECAUSE THEY WANT TO BE PUBLISHED.



WE CAN CHARGE WHATEVER WE WANT. IT'S ESSENTIALLY A MONOPOLY,

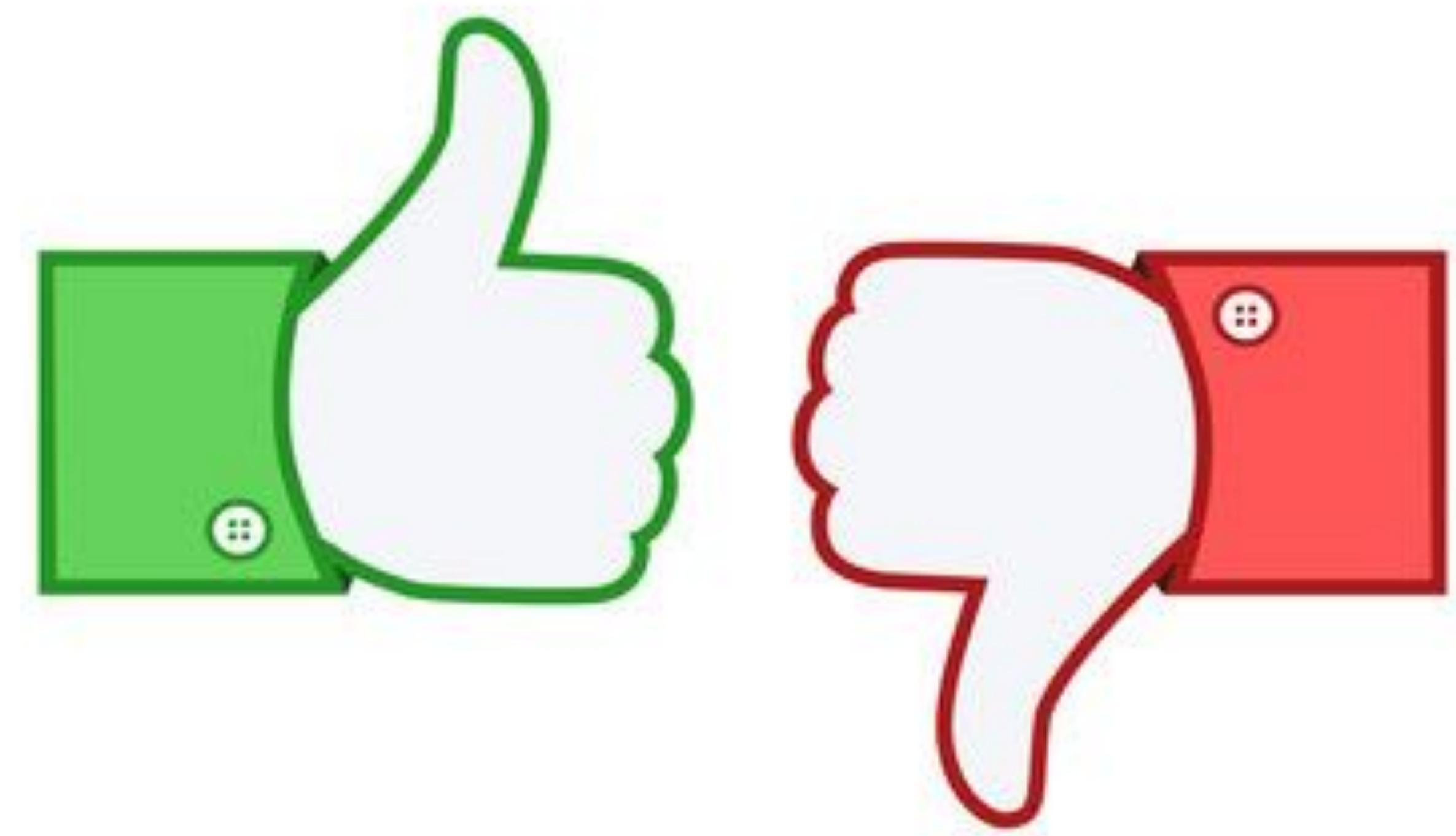


PUBLISHING RESEARCH

- Step 1: Do something novel and important
- Step 2: Write up your results
 - Different journals have different formats (e.g. length, images, scope)
- Step 3: Send to editors
 - Can be immediately rejected (e.g. not appropriate for journal)

PUBLISHING RESEARCH

- Step 4: Peer review
 - “Anonymous” review by ~3 researchers in the field
- Step 5: Revision
 - Answer specific questions
- Step 6: Resubmit
 - Address questions
- Step 7: Rejection or Accepted



PUBLISHING RESEARCH

Top publications - English		Learn more	
	Publication	h5-index	h5-median
Business, Economics & Management	1. Nature	355	495
Chemical & Material Sciences	2. The New England Journal of Medicine	329	495
Engineering & Computer Science	3. Science	311	431
Health & Medical Sciences	4. The Lancet	248	381
Humanities, Literature & Arts	5. Cell	223	343
Life Sciences & Earth Sciences	6. Proceedings of the National Academy of Sciences	217	280
Physics & Mathematics	7. Journal of Clinical Oncology	205	306
Social Sciences	8. Chemical Reviews	193	339
Chinese	9. Physical Review Letters	191	263
Portuguese	10. Journal of the American Chemical Society	190	250

- Journals are ranked by 'quality'
 - Helps to asses the validity of information

PUBMED

PUBMED

- Free search engine of MEDLINE (Medical Literature Analysis and Retrieval System Online) for life sciences and biomedical topics
- Run by National Library of Medicine (NLM) at the National Institutes of Health (NIH)
- 24 million citations
 - 1960 - most
 - 1865 - selectively
 - 1809 - very selectively
- 500,000 records added each year

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US National Library of Medicine
National Institutes of Health

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NCBI Handbook	DNA & RNA	PubMed Central	Research
Training & Tutorials	Domains & Structures	PubMed Health	NCBI N
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	Genetics & Medicine	Nucleotide	Gene Expression Omnibus
	Genomes & Maps	Genome	NCBI o
	Homology	SNP	Map Viewer
	Literature	Gene	Human Genome
	Proteins	Protein	Mouse Genome
	Sequence Analysis	PubChem	Influenza Virus
	Taxonomy		Primer-BLAST
	Training & Tutorials		Sequence Read Archive
	Variation		

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- Find citations, abstracts or full text articles
- NIH funded research are required to have full text available
 - Recent development

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	Genomes & Maps	Genome	Map Viewer
	Homology	SNP	Human Genome
	Literature	Gene	Mouse Genome
	Proteins	Protein	Influenza Virus
	Sequence Analysis	PubChem	Primer-BLAST
	Taxonomy		Sequence Read Archive
	Training & Tutorials		
	Variation		

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PUB MED

The screenshot shows the PubMed homepage with a dark purple header and a white content area. The header features the word "PUB MED" in large white letters. Below the header, there are three main sections: "Using PubMed", "PubMed Tools", and "More Resources". Each section contains several blue hyperlinks. At the bottom of the page, there is a footer with a navigation bar and various links to NCBI resources.

Using PubMed

- [PubMed Quick Start Guide](#)
- [Full Text Articles](#)
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- [PubMed Tutorials](#)
- [New and Noteworthy](#)

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You are here: NCBI > Literature > PubMed

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- Searching
 - “ndm-1” AND kim y
 - AND, NOT, OR (capital letters stops it from using as a search term)

PUBMED

Affiliation [AD]	Investigator [IR]	Pharmacological Action [PA]
Article Identifier [AID]	ISBN [ISBN]	Place of Publication [PL]
All Fields [ALL]	Issue [IP]	PMID [PMID]
Author [AU]	Journal [TA]	Publisher [PUBN]
Author Identifier [AUID]	Language [LA]	Publication Date [DP]
Book [book]	Last Author [LASTAU]	Publication Type [PT]
Comment Corrections	Location ID [LID]	Secondary Source ID [SI]
Corporate Author [CN]	MeSH Date [MHDA]	Subset [SB]
Create Date [CRDT]	MeSH Major Topic [MAJR]	Supplementary Concept [NM]
Completion Date [DCOM]	MeSH Subheadings [SH]	Text Words [TW]
EC/RN Number [RN]	MeSH Terms [MH]	Title [TI]
Editor [ED]	Modification Date [LR]	Title/Abstract [TIAB]
Entrez Date [EDAT]	NLM Unique ID [JID]	Transliterated Title [TT]
Filter [FILTER]	Other Term [OT]	UID [PMID]
First Author Name [1AU]	Owner	Version
Full Author Name [FAU]	Pagination [PG]	Volume [VI]
Full Investigator Name [FIR]	Personal Name as Subject [PS]	
Grant Number [GR]		

SEARCH FIELD
TAGS

PUBMED

- Search field descriptions and tags help to limit the scope of the terms
 - Finding an author
 - simpson h [author] - limits to name in author field
 - Subject
 - “donut” AND simpson h [author]
 - AND, NOT, OR (capital letters stops it from using AND as a search term)
 - Combined queries
 - “donut” [title] AND simpson h [author] AND nature [journal]

PUBMED

- Tips and tricks
 - Free Access flag
 - Truncated Search
 - Asterick can represent the rest of the word (only at the end)
 - "immuno*"
 - Immunoglobulin and immunoglobulin
 - Date Fields
 - [EDAT] & [PDAT]
 - Year - 2014, 1993
 - Month - 2014/03
 - Date - 2014/08/24
 - Range of Dates
 - 1998/02:2013/09/27
 - Feb 1, 1998 through September 27, 2013
 - Alternative syntax

PUB MED

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PubMed Help - PubMed Help - NCBI Bookshelf NDM-1 AND kim - PubMed - NCBI

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Article types More ...

Text availability Abstract Free full text Full text

Publication dates 5 years 10 years Custom range...

Species Humans

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Results: 7

[Characteristics of community-onset NDM-1-producing *Klebsiella pneumoniae* isolates.](#)
1. **Kim SY, Rhee JY, Shin SY, Ko KS.**
J Med Microbiol. 2014 Jan;63(Pt 1):86-9. doi: 10.1099/jmm.0.067744-0. Epub 2013 Oct 30.
PMID: 24173426 [PubMed - indexed for MEDLINE] [Related citations](#)

[Nosocomial transmission of NDM-1-producing *Escherichia coli* ST101 in a Korean hospital.](#)
2. **Yoo JS, Kim HM, Koo HS, Yang JW, Yoo JI, Kim HS, Park HK, Lee YS.**
J Antimicrob Chemother. 2013 Sep;68(9):2170-2. doi: 10.1093/jac/dkt126. Epub 2013 May 21. No abstract available.
PMID: 23696618 [PubMed - indexed for MEDLINE] [Free Article](#) [Related citations](#)

[Characteristics of carbapenem-resistant Enterobacteriaceae isolates from Korea.](#)
3. **Kim SY, Shin J, Shin SY, Ko KS.**
Diagn Microbiol Infect Dis. 2013 Aug;76(4):486-90. doi: 10.1016/j.diagmicrobio.2013.04.006. Epub 2013 May 18.
PMID: 23688521 [PubMed - indexed for MEDLINE]

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NDM-1, the ultimate promiscuous enzyme: substrate recognition and catalysis [FASEB J. 2013]

Nosocomial clustering of NDM-1-producing *Klebsiella pneumoniae* serotype [J Clin Microbiol. 2012]

Structure of apo- and monometalated forms of NDM-1--a highly potent carbapenemase [PLoS One. 2011]

See all (3)...

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Article types More ... Results: 2 New feature

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Publication dates 5 years

5 years

10 years

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Species Humans

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1. Kim Y, Cunningham MA, Mire J, Tesar C, Sacchettini J, Joachimiak A. FASEB J. 2013 May;27(5):1917-27. doi: 10.1096/fj.12-224014. Epub 2013 Jan 30. PMID: 23363572 [PubMed - indexed for MEDLINE] Free PMC Article Related citations

Structure of apo- and monometalated forms of NDM-1--a highly potent carbapenem-hydrolyzing metallo-β-lactamase.

2. Kim Y, Tesar C, Mire J, Jedrzejczak R, Binkowski A, Babnigg G, Sacchettini J, Joachimiak A. PLoS One. 2011;6(9):e24621. doi: 10.1371/journal.pone.0024621. Epub 2011 Sep 8. PMID: 21931780 [PubMed - indexed for MEDLINE] Free PMC Article Related citations

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NDM-1, the ultimate promiscuous enzyme: substrate recognition and catalysis [FASEB J. 2013]

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PUBMED CENTRAL

PUBMED CENTRAL

- Free full-text archive of biomedical and life sciences journals
- Provide permanent archive of articles
- Compliance with NIH mandate

The screenshot shows the homepage of the PubMed Central (PMC) website. At the top, there's a navigation bar with links for NCBI Resources How To, a search bar containing "PMC", and buttons for Journal List, Limits, and Advanced. Below the header is a large blue banner with the text "PMC" and a subtext: "PMC is a free full-text archive of biomedical and life sciences journal literature at the U.S. National Institutes of Health's National Library of Medicine (NIH/NLM)." On the left side, there are three main sections: "Get Started" (with links to PMC Overview, Users' Guide, Journal List, PMC FAQs, and PMC Copyright Notice), "Participate" (with links to Add a Journal to PMC, Participation Agreements, File Submission Specifications, and File Validation Tools), and "Keep Up to Date" (with links to New in PMC, PMC Announce Mail List, Utilities Announce Mail List, and Tagging Guidelines Mail List). In the center, a large box highlights "3.2 MILLION Articles" archived in PMC, with sub-sections for Full Participation Journals (1561), NIH Portfolio Journals (294), and Selective Deposit Journals (2702). At the bottom, there's a footer with links to various NCBI resources like NCBI Education, NCBI Help Manual, and NCBI Handbook, along with a "GETTING STARTED" section. The right side features a "FEATURED" section with links to various databases and tools, and a "NCBI INFO" section with links to About NCBI, Research at NCBI, NCBI News, NCBI FTP Site, and NCBI on Twitter.

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 1948-7193	ACS Chemical Neuroscience		v.5(8) Aug 20, 2014	v.1 2010	12 months or less 	Full
 1948-5875	ACS Medicinal Chemistry Letters		v.5(8) Aug 14, 2014	v.1 2010	12 months or less 	Full
 1672-9145	Acta Biochimica et Biophysica Sinica		v.45(8) Aug 2013	v.41 2009	12 months	NIH Portfolio
 2052-5192	Acta Crystallographica Section B, Structural Science, Crystal Engineering and Materials		v.70(Pt 3) Jun 1, 2014	v.69 2013	12 months 	NIH Portfolio
 0108-2701	Acta Crystallographica Section C: Crystal Structure Communications		v.69(Pt 8) Aug 15, 2013	v.64 2008	12 months 	NIH Portfolio
 0907-4449	Acta Crystallographica Section D: Biological Crystallography		v.70(Pt 7) Jul 1, 2014	v.55 1999	12 months 	NIH Portfolio
 1600-5368	Acta Crystallographica Section E: Structure Reports Online		v.70(Pt 7) Jul 1, 2014	v.64 2008	Immediate 	Full
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 0001-5547	Acta Cytologica		v.55(6) Dec 2011	v.55 2011		No longer participating (NIHP)
 0001-5792	Acta Haematologica		v.127(3) Mar 2012	v.121 2009		No longer participating (NIHP)

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EM Leroy, B Kumulungui, X Pourrut, P Rouquet... - Nature, 2005 - nature.com
The first recorded human outbreak of **Ebola** virus was in 1976, but the wild reservoir of this virus is still unknown 1. Here we test for **Ebola** in more than a thousand small vertebrates that were collected during **Ebola** outbreaks in humans and great apes between 2001 and ...
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[CITATION] Update: Ebola-related filovirus infection in nonhuman primates and interim guidelines for handling nonhuman primates during transit and quarantine.
Centers for Disease Control (CDC - MMWR. Morbidity and ..., 1990 - ncbi.nlm.nih.gov
1. MMWR Morb Mortal Wkly Rep. 1990 Jan 19;39(2):22-4, 29-30. Update: **Ebola**-related filovirus infection in nonhuman primates and interim guidelines for handling nonhuman primates during transit and quarantine. Centers for Disease Control (CDC). ...
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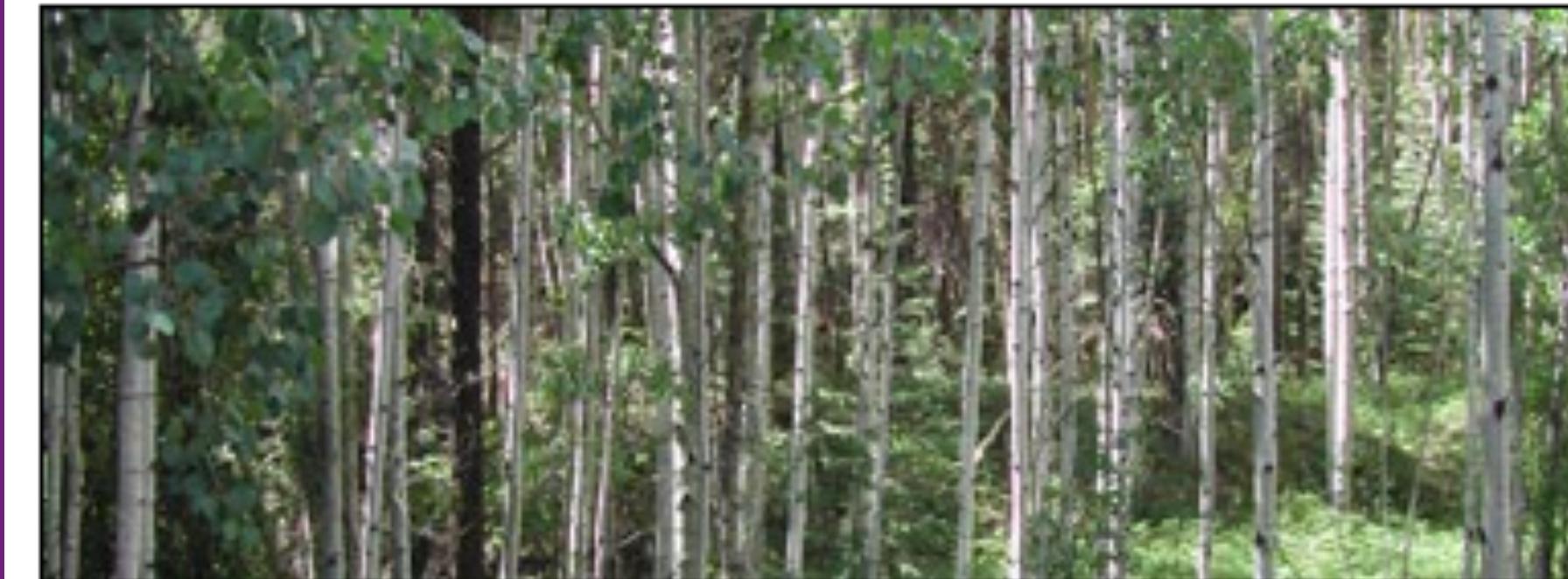
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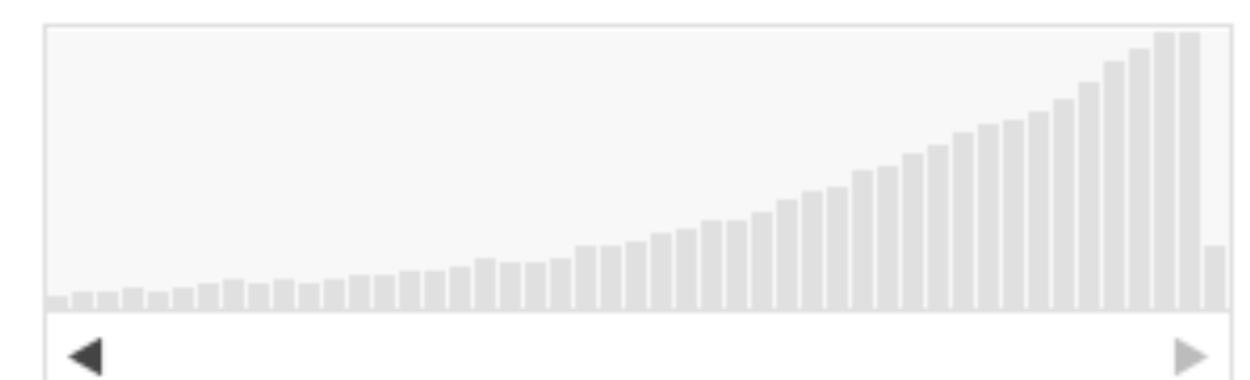
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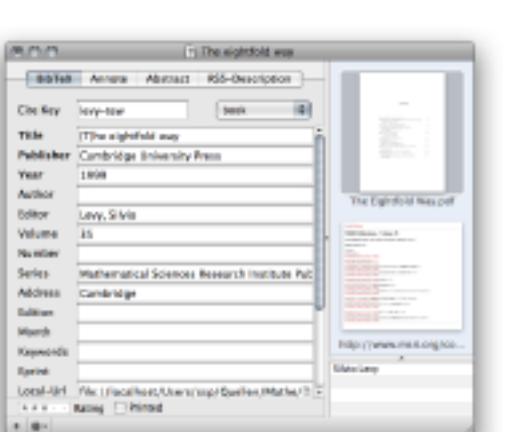
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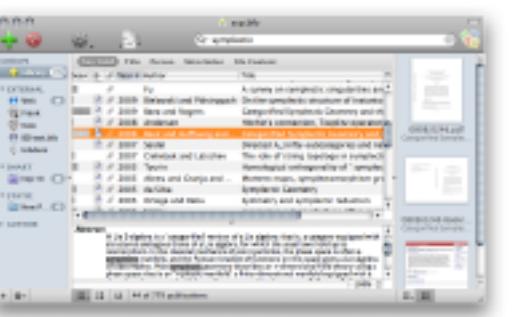
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