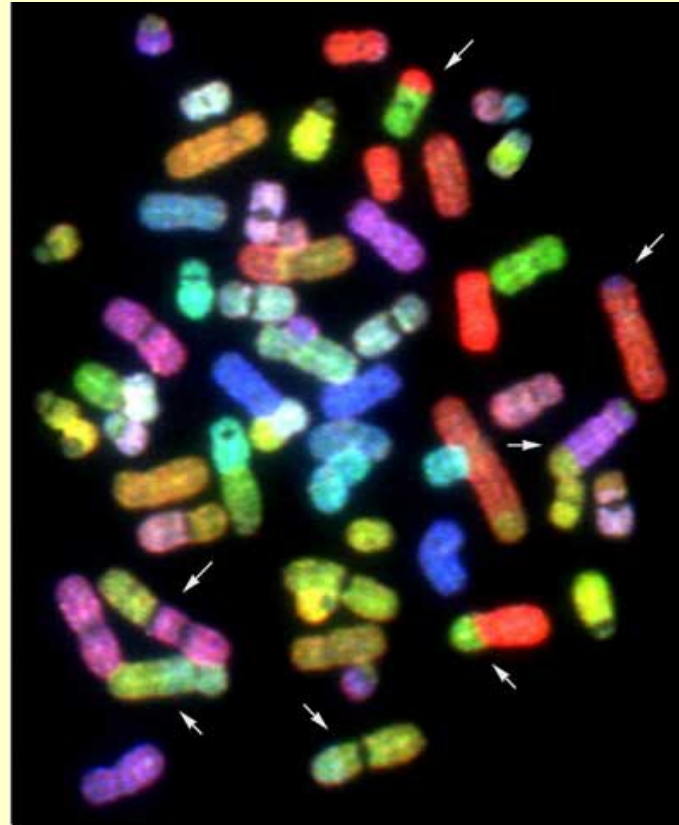


# Bibliographic Search

<http://biochem118.stanford.edu/>

---

## Genomics & Medicine



Doug Brutlag, Professor Emeritus of  
Biochemistry & Medicine  
Stanford University School of Medicine

# Access to Biological Literature

- Google Search  
<http://www.google.com/>
- Google Scholar  
<http://scholar.google.com/>
- NLM Medline  
<http://www.nlm.nih.gov/pubs/factsheets/medline.html>
- PubMed  
<http://pubmed.gov/>
- Medical Subject Headings (MeSH) Database  
<http://www.ncbi.nlm.nih.gov/mesh/>
- PubMed Central  
<http://www.ncbi.nlm.nih.gov/pmc/>
- PubMed Commons  
<http://www.ncbi.nlm.nih.gov/pubmedcommons/>
- Stanford University Library SearchWorks  
<http://searchworks.stanford.edu/>
- HighWire Press – Stanford University Libraries  
<http://highwire.stanford.edu/>
- Lane Library – Ovid, Biosis, Scopus, Bioresearch Portal,  
<http://lane.stanford.edu/>

# Google Search

<https://www.google.com/>

---

+Douglas

Gmail

Images



Share



# Google



Google Search

I'm Feeling Lucky

Advertising

Business

About

[New Privacy & Terms](#)

[Settings](#)

# Advanced Search Operations

<http://www.google.com/>

---

- **allintitle:** allintitle:prevalence “hepatitis b”
- **intitle:** first word / phrase is in title of webpage and the following word / phrase is in body of webpage, e.g., intitle: “yellow fever” nigeria
- **inurl:** for text within URLs
- **site:** Target search to a particular website, e.g., “malaria vaccine” site:cdc.gov
- **define:** “malignant hyperthermia”
- **filetype:** “google search tips” filetype:ppt

**Web**

Images

Maps

Shopping

More ▾

Search tools

About 163,000 results (0.19 seconds)

**[The Brutlag Bioinformatics Group](http://dna.stanford.edu/)**[dna.stanford.edu/](http://dna.stanford.edu/) ▾

Homepage of a group at Stanford University who are interested in the problems of predicting biological function and structure from primary sequence.

You've visited this page many times. Last visit: 1/14/14

**[Douglas L. Brutlag - CMGM Stanford - Stanford University](http://cmgm.stanford.edu/~brutlag/)**[cmgm.stanford.edu/~brutlag/](http://cmgm.stanford.edu/~brutlag/) ▾

Douglas L. **Brutlag** Professor Emeritus of Biochemistry & Medicine (by courtesy) Stanford University School of Medicine. Address and Contact Information

**[The Brutlag Bioinformatics Group - Courses](http://dna.stanford.edu/courses.html)**[dna.stanford.edu/courses.html](http://dna.stanford.edu/courses.html) ▾

This course is a Sophomore Seminar Series and only open to Sophomores and Freshmen. In this seminar we will discuss the kind of knowledge we hope to ...

**[CAP - Douglas Brutlag - Stanford University School of Medicine](http://med.stanford.edu/CommunityAcademicProfiles)**[med.stanford.edu](http://med.stanford.edu/CommunityAcademicProfiles) ▸ [Community Academic Profiles](#) ▾

... Award (1992). View All 8honors and awards of Douglas **Brutlag** ... Logic (1997 - 2003). View All 9professional activities and affiliations of Douglas **Brutlag** ...

You visited this page on 11/12/13

About 2,500 results (0.22 seconds)

[Douglas L. Brutlag - CMGM Stanford - Stanford University](http://cmgm.stanford.edu/~brutlag/)

[cmgm.stanford.edu/~brutlag/](http://cmgm.stanford.edu/~brutlag/) ▾

Douglas L. **Brutlag** Professor Emeritus of Biochemistry & Medicine (by courtesy) Stanford University School of Medicine. Address and Contact Information

[The Brutlag Bioinformatics Group](http://dna.stanford.edu/)

[dna.stanford.edu/](http://dna.stanford.edu/) ▾

Homepage of a group at Stanford University who are interested in the problems of predicting biological function and structure from primary sequence.

You've visited this page many times. Last visit: 1/14/14

[CAP - Douglas Brutlag - Stanford University School of Medicine](http://med.stanford.edu/CommunityAcademicProfiles)

[med.stanford.edu/CommunityAcademicProfiles](http://med.stanford.edu/CommunityAcademicProfiles) ▾

... Award (1992). View All 8honors and awards of Douglas **Brutlag** ... Logic (1997 - 2003). View All 9professional activities and affiliations of Douglas **Brutlag** ...

You visited this page on 11/13/13.

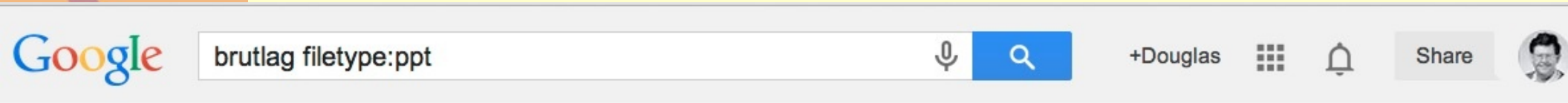
[The Brutlag Bioinformatics Group - Projects](http://motif.stanford.edu/projects.html)





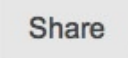

[motif.stanford.edu/projects.html](http://motif.stanford.edu/projects.html) ▾

eBLOCKS: eBLOCKS: Database of 80,000 conserved protein regions from 20,000 aligned protein families assembled using PSI-BLAST. eBLOCKs lets you ...

# Google FileType Search

<http://www.google.com/>



Google    +Douglas    

**Web** Images Maps Shopping More ▾ Search tools



About 457 results (0.34 seconds)

[PPT] [Bioinformatics](#)

[www.pitt.edu/~super7/45011-46001/45821.ppt](http://www.pitt.edu/~super7/45011-46001/45821.ppt) ▾

Doug **Brutlag**. Professor Emeritus of Biochemistry & Medicine. Stanford University School of Medicine. Doug **Brutlag** 2011. Human Biology 40th Birthday

[PPT] [Bioinformatics II](#)

[www.pitt.edu/~super7/45011-46001/45831.ppt](http://www.pitt.edu/~super7/45011-46001/45831.ppt) ▾

Doug **Brutlag**. Professor Emeritus of Biochemistry & Medicine. Stanford University School of Medicine. Doug **Brutlag** 2011. Human Biology 40th Birthday

[PPT] [Systematic Literature Search](#)

[www.pitt.edu/~super4/38011-39001/38771.ppt](http://www.pitt.edu/~super4/38011-39001/38771.ppt) ▾

Systematic Literature Search. Doug **Brutlag**. Professor Emeritus. Biochemistry & Medicine. Computational Molecular Biology Biochem 218 – BioMedical ...

[PPT] [Overview4\\_25\\_06.ppt - Simworkshop.stanford.edu](#)

[simworkshops.stanford.edu/06\\_0626/.../Overview4\\_25\\_06.ppt](http://simworkshops.stanford.edu/06_0626/.../Overview4_25_06.ppt) ▾

April 2006 • Pat Youngblood • Pauline **Brutlag** • SUMMIT. Stanford University Medical Media and Information Technology. MedBiquitous Annual Conference ...

[PPT] [Slide -](#)





# Google FileType and Site Search

<http://www.google.com/>

Google  +Douglas

Web Images Maps Shopping More ▾ Search tools

About 32 results (0.27 seconds)

- [PPT] [Overview4\\_25\\_06.ppt - Simworkshop.stanford.edu](#)  
[simworkshops.stanford.edu/06\\_0626/.../Overview4\\_25\\_06.ppt](#) ▾  
April 2006 • Pat Youngblood • Pauline **Brutlag** • SUMMIT. Stanford University Medical Media and Information Technology. MedBiquitous Annual Conference ...
- [PPT] [Slides](#)  
[www.stanford.edu/class/cs273/slides/roadmap-motion-2.ppt](#) ▾  
A.P. Singh, J.C. Latombe, and D.L. **Brutlag**. A Motion Planning Approach to Flexible Ligand Binding. Proc. 7th Int. Conf. on Intelligent Systems for Molecular ...
- [PPT] [tbs02.ppt - Stanford AI Lab - Stanford University](#)  
[ai.stanford.edu/~latombe/projects/tbs02.ppt](#) ▾  
Probabilistic Roadmaps: A Tool for Computing Ensemble Properties of Molecular Motions. Serkan Apaydin, Doug **Brutlag**<sup>1</sup>. Carlos Guestrin, David Hsu<sup>2</sup>
- [PPT] [conformational-spaces.ppt - Stanford AI Lab - Stanford University](#)  
[ai.stanford.edu/~latombe/projects/conformational-spaces.ppt](#) ▾  
Serkan Apaydin, Doug **Brutlag**<sup>1</sup>, Carlos Guestrin, David Hsu<sup>2</sup>, Jean-Claude Latombe, Chris Varma. Computer Science Department. Stanford University.







Search the Web  Search English and French pages

Articles ( include patents)  Case law

**Stand on the shoulders of giants**



Overview

Searching

Alerts

Library

Export

Coverage

Corrections

Questions

### Search Tips

Get the most out of Google Scholar with some helpful tips on searches, email alerts, citation export, and more.

#### Finding recent papers

Your search results are normally sorted by relevance, not by date. To find newer articles, try the following options in the left sidebar:

1. click "Since Year" to show only recently published papers, sorted by relevance;
2. click "Sort by date" to show just the new additions, sorted by date;
3. click the envelope icon to have new results periodically delivered by email.

#### Locating the full text of an article

Abstracts are freely available for most of the articles. Alas, reading the entire article may require a subscription. Here're a few things to try:

1. click a library link, e.g., "FindIt@Harvard", to the right of the search result;
2. click a link labeled [PDF] to the right of the search result;
3. click "All versions" under the search result and check out the alternative sources;
4. click "Related articles" or "Cited by" under the search result to explore similar articles.

If you're affiliated with a university, but don't see links such as "FindIt@Harvard", please check with your local library about the best way to access their online subscriptions. You may need to do search from a computer on campus, or to configure your browser to use a library proxy.

#### Getting better answers

Web Images More...



Scholar Settings

Save

Cancel

Search results

Languages

Library links

## Collections

- Search articles ( include patents).
- Search case law.

## Results per page

10



Google's default (10 results) provides the fastest results.

## Where results open

- Open each selected result in a new browser window.

## Bibliography manager

- Don't show any citation import links.
- Show links to import citations into EndNote.

Save

## 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



Articles

Case law

My library **New!**

Any time

Since 2014

Since 2013

Since 2010

Custom range...

Sort by relevance

Sort by date

Search the Web

Search English  
and French pages

include patents

include citations

Create alert

[\[PDF\] BioProspector: discovering conserved DNA motifs in upstream regulatory regions of co-expressed genes.](#)

[X Liu, DL Brutlag, JS Liu - Pacific Symposium on Biocomputing, 2001 - psb.stanford.edu](#)

The development of genome sequencing and DNA microarray analysis of gene expression gives rise to the demand for data-mining tools. BioProspector, a C program using a Gibbs sampling strategy, examines the upstream region of genes in the same gene expression ...

Cited by 772 Related articles All 24 versions Import into EndNote Saved More

[\[PDF\] from stanford.edu](#)  
[Find it@Stanford](#)

[An algorithm for finding protein–DNA binding sites with applications to chromatin-immunoprecipitation microarray experiments](#)

[XS Liu, DL Brutlag, JS Liu - Nature biotechnology, 2002 - nature.com](#)

Abstract Chromatin immunoprecipitation followed by cDNA microarray hybridization (ChIP–array) has become a popular procedure for studying genome-wide protein–DNA interactions and transcription regulation. However, it can only map the probable protein–DNA ...

Cited by 629 Related articles All 4 versions Import into EndNote Saved More

[Find it@Stanford](#)

[A genome-wide analysis of CpG dinucleotides in the human genome distinguishes two distinct classes of promoters](#)

[S Saxonov, P Berg, DL Brutlag - Proceedings of the ..., 2006 - National Acad Sciences](#)

Abstract A striking feature of the human genome is the dearth of CpG dinucleotides (CpGs) interrupted occasionally by CpG islands (CGIs), regions with relatively high content of the dinucleotide. CGIs are generally associated with promoters; genes, whose promoters are ...

Cited by 499 Related articles All 18 versions Import into EndNote Saved More

[\[HTML\] from pnas.org](#)  
[Find it@Stanford](#)

[Molecular arrangement and evolution of heterochromatic DNA](#)

[DL Brutlag - Annual review of genetics, 1980 - annualreviews.org](#)

Analyses of the sequence organization and nucleotide sequence of highly repeated heterochromatic DNAs have recently given insight into the mechanisms whereby these DNAs change during evolution. These mechanisms have important implications that limit ...

Cited by 413 Related articles All 4 versions Import into EndNote Saved More

[Find it@Stanford](#)

[DNA topoisomerase II from Drosophila melanogaster. Relaxation of supercoiled DNA.](#)

[N Osheroff, ER Shelton, DL Brutlag - Journal of Biological Chemistry, 1983 - ASBMB](#)

Abstract In order to study the double-strand DNA passage reaction of eukaryotic type II topoisomerases, a quantitative assay to monitor the enzymic conversion of supercoiled circular DNA to relaxed circular DNA was developed. Under conditions of maximal activity, ...

Cited by 262 Related articles All 5 versions Import into EndNote Saved More

[\[PDF\] from jbc.org](#)  
[Find it@Stanford](#)



[Change photo](#)

## Douglas Brutlag Edit

Professor Emeritus of Biochemistry and Medicine, Stanford University Edit

[genomics](#) - [bioinformatics](#) - [computational biology](#) Edit

Verified email at stanford.edu Edit

My profile is public Edit Link [Homepage](#) Edit

[My Citations - Help](#)

### Follow this author

1 Follower

[Follow new articles](#)  
[Follow new citations](#)

### Add co-authors

- [Xiaole Shirley Liu](#)
- [Mehmet Serkan A...](#)
- [Asa Ben-Hur](#)
- [larry kedec](#)
- [David Hsu](#)
- [Russ Altman](#)
- [Serafim Batzoglou](#)
- [Robert Shafer](#)
- [Trevor Hastie](#)
- [Daphne Koller](#)

[View all co-authors](#)

### Co-authors

No co-authors



Inviting co-author

### Citation indices

	All	Since 2009
Citations	9923	1975
h-index	48	18
i10-index	102	33

### Citations to my articles



Select: [All](#), [None](#)

Show:   [Next >](#)

Title / Author	Cited by	Year
<input type="checkbox"/> <a href="#">BioProspector: discovering conserved DNA motifs in upstream regulatory regions of co-expressed genes.</a> X Liu, DL Brutlag, JS Liu Pacific Symposium on Biocomputing 6, 127-138	772	2001
<input type="checkbox"/> <a href="#">An algorithm for finding protein-DNA binding sites with applications to chromatin-immunoprecipitation microarray experiments</a> XS Liu, DL Brutlag, JS Liu Nature biotechnology 20 (8), 835-839	627	2002
<input type="checkbox"/> <a href="#">Enzymatic Synthesis of Deoxyribonucleic Acid XXXVI. A PROOFREADING FUNCTION FOR THE 3'→ 5'EXONUCLEASE ACTIVITY IN DEOXYRIBONUCLEIC ACID POLYMERASES</a> D Brutlag, A Kornberg Journal of Biological Chemistry 247 (1), 241-248	513	1972
<input type="checkbox"/> <a href="#">A genome-wide analysis of CpG dinucleotides in the human genome distinguishes two distinct classes of promoters</a> S Saxonov, P Berg, DL Brutlag Proceedings of the National Academy of Sciences of the United States of ...	499	2006
<input type="checkbox"/> <a href="#">Molecular arrangement and evolution of heterochromatic DNA</a> DL Brutlag Annual review of genetics 14 (1), 121-144	413	1980
<input type="checkbox"/> <a href="#">RNA synthesis initiates in vitro conversion of M13 DNA to its replicative form</a> W Wickner, D Brutlag, R Schekman, A Kornberg Proceedings of the National Academy of Sciences 69 (4), 965-969	351	1972

# PubMed

<http://www.nlm.nih.gov/pubs/factsheets/medline.html>

---

- Medical literature (Medline) since 1946
- Abstracts since 1975
- Molecular biology since 1985
- 5,600 journals worldwide (60 languages)
- 18 million abstracts, 734,052 / last year, 4,000 / day
- 2.5 billion searches per year, 7 million per day
- MeSH Medical Subject Heading Thesaurus
  - Controlled vocabulary
  - Indexing terms
  - Search concepts
- Unified Medical Language System (UMLS)
- Journal Database
- LinkOut to journal publishers and other Providers
  - APC Proxy access to Stanford Publications
- ENTREZ: Abstract Neighboring
- MyNCBI: Query Storage and Current Awareness



## PubMed

PubMed comprises more than 21 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](#)

[New and Noteworthy](#) 

### PubMed Tools

[PubMed Mobile](#)

[Single Citation Matcher](#)

[Batch Citation Matcher](#)

[Clinical Queries](#)

[Topic-Specific Queries](#)

### More Resources

[MeSH Database](#)

[Journals in NCBI Databases](#)

[Clinical Trials](#)

[E-Utilities](#)

[LinkOut](#)





# Medline Sample Record

<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=PubMed>

---

UI 98408838

AU Tao X, Dafu D

TI Relationship between synonymous codon usage and protein structure.

MH Codon\*

MH Protein Folding\*

MH Protein Structure, Secondary\*

MH Proteins/genetics .....

AB The hypothesis that synonymous codon usage is related to protein three-dimensional structure is examined by ...

PT Journal article

SO FEBS Lett 1998 Aug 28: 434 (1-2) : 93-6

# Medline Fields

- 
- All Fields [ALL]
  - Affiliation [AD]
  - Author [AU]
  - EC/RN Number [RN]
  - Entrez Date [EDAT]
  - Issue [IP]
  - Journal Title [TA]
  - Language [LA]
  - MeSH Date [MHDA]
  - MeSH Major [MAJR]
  - MeSH Subheads [SH]
  - MeSH Terms [MESH]
  - Publication Date [DP]
  - Publication Type [PT]
  - Subset [SB]
  - Substance Name [NM]
  - Text Words [TW]
  - Title [TI]
  - Title/Abstract [TIAB]
  - Unique Identifiers [UID]
  - Volume [VI]

PubMed

**Display Settings:**  Summary, 20 per page, Sorted by Recently Added

**Send to:**  **Filter your results:**

**Results: 1 to 20 of 111**

<< First < Prev Page  of 6 Next > Last >>

All (111)

[Free Full Text \(46\)](#)

[Review \(3\)](#)

[Manage Filters](#)

1. [Iron Intoxication in a Dog Consequent to the Ingestion of Oxygen Absorber Sachets in Pet Treat Packaging.](#)

**Brutlag AG, Flint CT, Puschner B.**

J Med Toxicol. 2011 Dec 22. [Epub ahead of print]

PMID: 22190175 [PubMed - as supplied by publisher]

[Related citations](#)

2. [Recognition of CpG island chromatin by KDM2A requires direct and specific interaction with linker DNA.](#)

**Zhou JC, Blackledge NP, Farcas AM, Klose RJ.**

Mol Cell Biol. 2012 Jan;32(2):479-89. Epub 2011 Nov 14.

PMID: 22083960 [PubMed - indexed for MEDLINE] **Free PMC Article**

[Related citations](#)

3. [Potential zinc phosphide rodenticide toxicosis in dogs: 362 cases \(2004-2009\).](#)

**Gray SL, Lee JA, Hovda LR, Brutlag AG.**

J Am Vet Med Assoc. 2011 Sep 1;239(5):646-51.

PMID: 21879965 [PubMed - indexed for MEDLINE]

[Related citations](#)

**35 free full-text articles in PubMed Central**

Recognition of CpG island chromatin by [Mol Cell Biol. 2012]

Dynamic use of multiple param [Nucleic Acids Res. 2007]

Genotypic predictors of human i [Proc Natl Acad Sci U S A. 2006]

[See all \(35\)...](#)

**Find related data**

Database:

# PubMed Author Search

PubMed  Search

Display Settings:  Summary, 20 per page, Sorted by Recently Added

Send to:  Filter your results:

Results: 1 to 20 of 93

<< First < Prev Page 1 of 5 Next > Last >>

- All (93)
- [Free Full Text \(40\)](#)
- [Review \(3\)](#)

[Manage Filters](#)

[Using stochastic roadmap simulation to predict experimental quantities in protein folding kinetics: folding rates and phi-values.](#)

Chiang TH, Apaydin MS, Brutlag DL, Hsu D, Latombe JC.  
J Comput Biol. 2007 Jun;14(5):578-93.  
PMID: 17683262 [PubMed - indexed for MEDLINE]

[Related citations](#)

[Dynamic use of multiple parameter sets in sequence alignment.](#)

Huang X, Brutlag DL.  
Nucleic Acids Res. 2007;35(2):678-86. Epub 2006 Dec 19.  
PMID: 17182633 [PubMed - indexed for MEDLINE] **Free PMC Article**

[Related citations](#)

[Genotypic predictors of human immunodeficiency virus type 1 drug resistance.](#)

Rhee SY, Taylor J, Wadhera G, Ben-Hur A, Brutlag DL, Shafer RW.  
Proc Natl Acad Sci U S A. 2006 Nov 14;103(46):17355-60. Epub 2006 Oct 25.  
PMID: 17065321 [PubMed - indexed for MEDLINE] **Free PMC Article**

[Related citations](#)

**29 free full-text articles in PubMed Central**

Dynamic use of multiple parameter sets in sequence alignment [Nucleic Acids Res. 2007]

Genotypic predictors of human immunodeficiency virus type 1 drug resistance [Proc Natl Acad Sci U S A. 2006]

A graph-based motif detection algorithm [Nucleic Acids Res. 2006]

[See all \(29\)...](#)

**Find related data**

Database:

# MeSH Database

<http://www.nlm.nih.gov/pubs/factsheets/mesh.html>

---

## MeSH Contains

27,149 Thesaurus Terms &  
218,000 Entry Terms (Synonyms)

Average 10-15 per article

3-4 as major points of article = \* in PubMed

Most specific MeSH assigned for each concept

## Subheadings

88 Qualifiers used with the 27,149 MeSH terms

Subheadings focus on sub-aspects of MeSH term

(e.g., Hemoglobins - chemistry, Disease - diagnosis,  
Disease - Therapy, etc.)

# MeSH Database

<http://www.ncbi.nlm.nih.gov/mesh>

MeSH

MeSH

DNA Sequencing

Search

[Limits](#) [Advanced](#)

[Help](#)



## MeSH

MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed.

### Using MeSH

[Help](#)

[Tutorials](#)

### More Resources

[E-Utilities](#)

[NLM MeSH Homepage](#)

# MeSH Search for High-Throughput DNA Sequencing

<http://www.ncbi.nlm.nih.gov/mesh/?term=DNA+Sequencing>

MeSH

MeSH

DNA Sequencing

Search

[Save search](#) [Limits](#) [Advanced](#)

[Help](#)

**Display Settings:**  Summary

**Send to:**

## Results: 2

[Sequence Analysis, DNA](#)

1. A multistage process that includes cloning, physical mapping, subcloning, determination of the DNA SEQUENCE, and information analysis.

Year introduced: 1993

[High-Throughput Nucleotide Sequencing](#)

2. Techniques of nucleotide sequence analysis that increase the range, complexity, sensitivity, and accuracy of results by greatly increasing the scale of operations and thus the number of nucleotides, and the number of copies of each nucleotide sequenced. The sequencing may be done by analysis of the synthesis or ligation products, hybridization to preexisting sequences, etc.

Year introduced: 2011

### PubMed Search Builder

```
"High-Throughput
Nucleotide Sequencing"
[Majr]
```

Add to search builder

AND

Search PubMed

### Find related data

Database:

Select

[YouTube Tutorial](#)

# MeSH Search for High-Throughput DNA Sequencing

<http://www.ncbi.nlm.nih.gov/mesh/?term=DNA+Sequencing>

Display Settings:  Full

Send to:

## High-Throughput Nucleotide Sequencing

Techniques of nucleotide sequence analysis that increase the range, complexity, sensitivity, and accuracy of results by greatly increasing the scale of operations and thus the number of nucleotides, and the number of copies of each nucleotide sequenced. The sequencing may be done by analysis of the synthesis or ligation products, hybridization to preexisting sequences, etc.

Year introduced: 2011

PubMed search builder options

### Subheadings:

- |  |  |                                      |
|--|--|--------------------------------------|
| <input type="checkbox"/> economics       | <input type="checkbox"/> methods                         | <input type="checkbox"/> trends      |
| <input type="checkbox"/> ethics          | <input type="checkbox"/> organization and administration | <input type="checkbox"/> utilization |
| <input type="checkbox"/> history         | <input type="checkbox"/> standards                       | <input type="checkbox"/> veterinary  |
| <input type="checkbox"/> instrumentation | <input type="checkbox"/> statistics and numerical data   |                                      |

- Restrict to MeSH Major Topic.
- Do not include MeSH terms found below this term in the MeSH hierarchy.

### PubMed Search Builder

```
"High-Throughput
Nucleotide Sequencing"
[Majr]
```

Add to search builder AND

Search PubMed

 Tutorial

### Related information

PubMed

PubMed - Major Topic

Clinical Queries

NLM MeSH Browser

### Recent Activity



# Mesh Search for Breast Cancer Diagnostics

[http://www.ncbi.nlm.nih.gov/pubmed?term=\(%22High-Throughput+Nucleotide+Sequencing%22%5BM](http://www.ncbi.nlm.nih.gov/pubmed?term=(%22High-Throughput+Nucleotide+Sequencing%22%5BM)

MeSH    [Limits](#) [Advanced](#) [Help](#)

Display Settings:  Full

## Breast Neoplasms

Tumors or cancer of the human BREAST.

PubMed search builder options

[Subheadings:](#)

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> analysis              | <input type="checkbox"/> epidemiology                    | <input type="checkbox"/> psychology                    |
| <input type="checkbox"/> anatomy and histology | <input type="checkbox"/> ethnology                       | <input type="checkbox"/> radiography                   |
| <input type="checkbox"/> blood                 | <input type="checkbox"/> etiology                        | <input type="checkbox"/> radionuclide imaging          |
| <input type="checkbox"/> blood supply          | <input type="checkbox"/> genetics                        | <input type="checkbox"/> radiotherapy                  |
| <input type="checkbox"/> cerebrospinal fluid   | <input type="checkbox"/> history                         | <input type="checkbox"/> rehabilitation                |
| <input type="checkbox"/> chemically induced    | <input type="checkbox"/> immunology                      | <input type="checkbox"/> secondary                     |
| <input type="checkbox"/> chemistry             | <input type="checkbox"/> legislation and jurisprudence   | <input type="checkbox"/> secretion                     |
| <input type="checkbox"/> classification        | <input type="checkbox"/> metabolism                      | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> complications         | <input type="checkbox"/> microbiology                    | <input type="checkbox"/> surgery                       |
| <input type="checkbox"/> congenital            | <input type="checkbox"/> mortality                       | <input type="checkbox"/> therapy                       |
| <input type="checkbox"/> cytology              | <input type="checkbox"/> nursing                         | <input type="checkbox"/> transmission                  |
| <input checked="" type="checkbox"/> diagnosis  | <input type="checkbox"/> organization and administration | <input type="checkbox"/> ultrasonography               |
| <input type="checkbox"/> diet therapy          | <input type="checkbox"/> parasitology                    | <input type="checkbox"/> ultrastructure                |
| <input type="checkbox"/> drug therapy          | <input type="checkbox"/> pathology                       | <input type="checkbox"/> urine                         |
| <input type="checkbox"/> economics             | <input type="checkbox"/> physiology                      | <input type="checkbox"/> veterinary                    |
| <input type="checkbox"/> embryology            | <input type="checkbox"/> physiopathology                 | <input type="checkbox"/> virology                      |
| <input type="checkbox"/> enzymology            | <input type="checkbox"/> prevention and control          |  |

- Restrict to MeSH Major Topic.  
 Do not include MeSH terms found below this term in the MeSH hierarchy.

Send to:

### PubMed Search Builder

```
("High-Throughput Nucleotide Sequencing"[Majr]) AND "Breast Neoplasms/diagnosis"[Majr]
```

[YouTube Tutorial](#)

### Related information

- [PubMed](#)
- [PubMed - Major Topic](#)
- [Clinical Queries](#)
- [NLM MeSH Browser](#)
- [dbGaP Links](#)
- [MedGen](#)

### Recent Activity

- [Turn Off](#) [Clear](#)
- [Breast Neoplasms](#) MeSH
  - [breast cancer \(52\)](#) MeSH

# Mesh Search for Breast Cancer Diagnostics

[http://www.ncbi.nlm.nih.gov/pubmed?term=\(%22High-Throughput+Nucleotide+Sequencing%22%5BM](http://www.ncbi.nlm.nih.gov/pubmed?term=(%22High-Throughput+Nucleotide+Sequencing%22%5BM)

PubMed

RSS [Save search](#) [Advanced](#)

[Help](#)

[Show additional filters](#)

**Display Settings:**  Summary, 20 per page, Sorted by Recently Added

**Send to:**

**Filter your results:**

**Article types**

Review

More ...

**Text**

**availability**

Abstract available

Free full text available

Full text available

**Publication**

**dates**

5 years

10 years

Custom range...

**Species**

Humans

Other Animals

[Clear all](#)

[Show additional filters](#)

**Results: 7**

- [Next-generation sequencing: a powerful tool for the discovery of molecular markers in breast ductal carcinoma in situ.](#)  
 1. Kaur H, Mao S, Shah S, Gorski DH, Krawetz SA, Sloane BF, Mattingly RR. Expert Rev Mol Diagn. 2013 Mar;13(2):151-65. doi: 10.1586/erm.13.4. Review. PMID: 23477556 [PubMed - indexed for MEDLINE] [Related citations](#)
- [Next-generation sequencing meets genetic diagnostics: development of a comprehensive workflow for the analysis of BRCA1 and BRCA2 genes.](#)  
 2. Feliubadaló L, Lopez-Doriga A, Castellsagué E, del Valle J, Menéndez M, Tornero E, Montes E, Cuesta R, Gómez C, Campos O, Pineda M, González S, Moreno V, Brunet J, Blanco I, Serra E, Capellá G, Lázaro C. Eur J Hum Genet. 2013 Aug;21(8):864-70. doi: 10.1038/ejhg.2012.270. Epub 2012 Dec 19. PMID: 23249957 [PubMed - indexed for MEDLINE] [Related citations](#)
- [Detection of genomic variations in BRCA1 and BRCA2 genes by long-range PCR and next-generation sequencing.](#)  
 3. Hernan I, Borràs E, de Sousa Dias M, Gamundi MJ, Mañé B, Llorc G, Agúndez JA, Blanca M, Carballo M. J Mol Diagn. 2012 May-Jun;14(3):286-93. doi: 10.1016/j.jmoldx.2012.01.013. Epub 2012 Mar 16. PMID: 22426013 [PubMed - indexed for MEDLINE] [Related citations](#)
- [Breast cancer signatures for invasiveness and prognosis defined by deep sequencing of microRNA.](#)  
 4. Volinia S, Galasso M, Sana ME, Wise TF, Palatini J, Huebner K, Croce CM. Proc Natl Acad Sci U S A. 2012 Feb 21;109(8):3024-9. doi: 10.1073/pnas.1200010109. Epub 2012 Feb 6. PMID: 22315424 [PubMed - indexed for MEDLINE] **Free PMC Article** [Related citations](#)

All (7)

Clinical Trial (0)

Humans (7)

Published in the last 5 years (7)

Review (1)

[Manage Filters](#)

**New feature**

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

**4 free full-text articles in PubMed Central**

Breast cancer signatures for invasiveness and progr [Proc Natl Acad Sci U S A. 2012]

Identification of gene fusion transcripts by transcriptome ε [BMC Med Genomics. 2011]

Discovery of novel human breast cancer microRNAs from deep se [PLoS One. 2011]

[See all \(4\)...](#)

**Find related data**

Database:

# PubMed Search for Deep Sequencing and

PubMed

[RSS](#) [Save search](#) [Advanced](#)

[Help](#)

[Show additional filters](#)

**Display Settings:**  Summary, 20 per page, Sorted by Recently Added

**Send to:**

**Filter your results:**

**Article types**

- Clinical Trial
- Review
- More ...

**Text availability**

- Abstract available
- Free full text available
- Full text available

**Publication dates**

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

**Species**

- Humans
- Other Animals

[Clear all](#)

[Show additional filters](#)

**Results: 1 to 20 of 50**

<< First < Prev Page  of 3 Next > Last >>

- [Genetic counseling for breast cancer risk: how did we get here and where are we going?](#)

1. **Lang KA.**  
Expert Rev Mol Diagn. 2013 Jul;13(6):541-51. doi: 10.1586/14737159.2013.811903.  
PMID: 23895125 [PubMed - indexed for MEDLINE]  
[Related citations](#)

- [Genome-wide small RNA sequencing and gene expression analysis reveals a microRNA profile of cancer susceptibility in ATM-deficient human mammary epithelial cells.](#)

2. **Hesse JE, Liu L, Innes CL, Cui Y, Palii SS, Paules RS.**  
PLoS One. 2013 May 31;8(5):e64779. doi: 10.1371/journal.pone.0064779. Print 2013.  
PMID: 23741392 [PubMed - indexed for MEDLINE] **Free PMC Article**  
[Related citations](#)

- [Relapsed classic E-cadherin \(CDH1\)-mutated invasive lobular breast cancer shows a high frequency of HER2 \(ERBB2\) gene mutations.](#)

3. **Ross JS, Wang K, Sheehan CE, Boguniewicz AB, Otto G, Downing SR, Sun J, He J, Curran JA, Ali S, Yelensky R, Lipson D, Palmer G, Miller VA, Stephens PJ.**  
Clin Cancer Res. 2013 May 15;19(10):2668-76. doi: 10.1158/1078-0432.CCR-13-0295. Epub 2013 Apr 10.  
PMID: 23575477 [PubMed - indexed for MEDLINE]  
[Related citations](#)

- [Genome evolution during progression to breast cancer.](#)

4. **Newburger DE, Kashef-Haghighi D, Weng Z, Salari R, Sweeney RT, Brunner AL, Zhu SX, Guo X, Varma S, Troxell ML, West RB, Batzoglou S, Sidow A.**  
Genome Res. 2013 Jul;23(7):1097-108. doi: 10.1101/gr.151670.112. Epub 2013 Apr 8.  
PMID: 23568837 [PubMed - indexed for MEDLINE] **Free PMC Article**  
[Related citations](#)

All (50)

[Clinical Trial \(1\)](#)

[Humans \(49\)](#)

[Published in the last 5 years \(47\)](#)

[Review \(3\)](#)

[Manage Filters](#)

**New feature**

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

**23 free full-text articles in PubMed Central**

Genome-wide small RNA sequencing and gene expression analysis [PLoS One. 2013]

Genome evolution during progression to breast cancer. [Genome Res. 2013]

Klf4 is a transcriptional regulator of genes critical for EMT, including [PLoS One. 2013]

[See all \(23\)...](#)

**Find related data**

Database:

## PubMed® Online Training

[Return to PubMed](#)

## PubMed Tutorial

Be PubMed proficient. Take the [PubMed Tutorial](#).

Go to:

[Understanding the Vocabulary](#) - [Building the Search](#) - [Managing the Results](#) - [Saving the Search](#) - [Getting the Articles](#)

## Quick Tours

The following are brief [animated tutorials](#) with audio for using PubMed. Running times are rounded to the nearest minute. Click on the link to launch the tour.

### Searching PubMed

- [Search PubMed by Author](#) (2 min., May 2013)
- [Searching PubMed by Author and Subject](#) (1 min., May 2013)
- [PubMed Simple Subject Search](#) (1 min., March 2013)
- [PubMed Simple Subject Search: How It Works](#) (1 min., May 2013)
- [Use MeSH to Build a Better PubMed Query](#) (3 min., YouTube video, February 2013)
- [PubMed: The Filters Sidebar](#) (2 min., YouTube video, December 2012)
- [Search for a Journal](#) (2 min., January 2013) - See also [Searching for Journals in the NLM Catalog](#)
- [Retrieving Citations from a Journal Issue](#) (1 min., January 2013)
- [Advanced Search Builder](#) (2 min., YouTube video, December 2011)

### Saving Searches (My NCBI)

- [Save Searches and Set E-mail Alerts](#) (2 min., YouTube video, May 2013)
- [E-mail Alerts for Articles from Your Favorite Journals](#) (3 min., March 2013)

### Collections and Bibliographies (My NCBI)

- [Save Search Results in Collections](#) (3 min., YouTube video, August 2012)
- [Editing Collections](#) (3 min., May 2013)
- [My Bibliography](#) (3 min., YouTube video, January 2012)
- [My Bibliography: Public Access Compliance](#) (3 min., YouTube video, April 2013)
- [Sharing Collections](#) (2 min., October 2012)

### Preferences and Filters (My NCBI)

- [Retrieving Your My NCBI Username or Password](#) (2 min., October 2012)



### Hot Topics

- [Clinical Queries](#)  
Have a clinical question? Try PubMed Clinical Queries.

# Advantages of using MeSH Terms

<http://www.nlm.nih.gov/mesh/introduction2007.html>

---

- Represent a subject concept & no synonyms needed
- Find relevant articles on a search topic that may not be explicitly mentioned in a title or abstract
- Focus search specifically eliminate irrelevant records
- Increase search efficiency
- Get complete, accurate and highly focused results

# Disadvantages of MeSH

<http://www.nlm.nih.gov/mesh/introduction2007.html>

---

- Thesaurus terms may not cover all concepts, especially new concepts and jargon
- Not every concept in abstract or article can get thesaurus terms

# Current Awareness

---

- Google Scholar Alerts
  - <http://scholar.google.com/>
- HighWire Press Table of Contents & Notification  
<http://highwire.stanford.edu/>
- Current Awareness with MyNCBI  
<http://www.cdlib.org/guides/pubmed/currentawareness.rtf>
- MyNCBI: PubMed Saved Searches  
<http://www.ncbi.nlm.nih.gov/sites/myncbi/>

# HighWire Press, An Introduction

---

- 1995 launch of *Journal of Biological Chemistry Online*
- Self-funding after first 18 months
- 1,739+ journals in Science & Medicine, Humanities & Social Sciences
- Many of the world's most cited, highest impact Science & Medical journals
- Not-for-profit publishers and societies
- Perception: premium service at a premium price



[Advanced Search](#)[Browse](#)

- ▶ [By Title](#)
- ▶ [By Publisher](#)
- ▶ [By Topic](#)

[Personalize & Alerts](#)[Research Tools](#)[Info, Lists & Links](#)

## SEARCH

[SEARCH HISTORY](#)[SEARCH TIPS](#)

+ Expand for more search options and tools






## BROWSE

Browse HighWire-hosted content by: ▶ [Title](#) ▶ [Publisher](#) ▶ [Topic](#)

### Personalize

[More](#)

Tailor your discovery experience with these options

-  [Table of content alerts](#)
-  [Citation alerts](#)
-  [Keyword alerts](#)
-  [PDA alerts](#)
-  [My Favorites](#)

### Research Tools

[More](#)

Advanced tools for research:

- ▶ [Citation map](#)
- ▶ [Keyword in context](#)
- ▶ [Matchmaker](#)
- ▶ [Instant Index](#)
- ▶ [Topic search](#)
- ▶ [Download to citation manager](#)
- ▶ [Full-text access to your Institution's Subscriptions](#)
- ▶ [Publications Offering](#)
  - 35 free trials
  - 51 free titles
  - 273 free back issues
  - 1311 pay-per-view options



[Advanced Search](#)
[Browse](#)

- ▶ [By Title](#)
- ▶ [By Publisher](#)
- ▶ [By Topic](#)

[Personalize & Alerts](#)
[Research Tools](#)
[Info, Lists & Links](#)
**SEARCH**


[SEARCH HISTORY](#)
[SEARCH TIPS](#)

+ Expand for more search options and tools

**1-10 of 2,241 results**
**Format Results**


For checked items

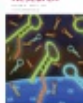
- view abstract
- download to citation manager

Citation:

Results / page:

Sort by:


[Next results](#)
 check all

**this article is FREE**

**The EMOTIF database**

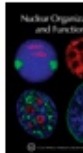
 Jimmy Y. Huang and Douglas L. **Brutlag**
**Nucleic Acids Res.**, Jan 2001; 29: 202 - 204.

... database Jimmy Y. Huang \* Douglas L. **Brutlag** Department of Biochemistry, Stanford...al. (Nevill-Manning,C.G., Wu,T.D. and **Brutlag**,D.L. (1998) Proc. Natl Acad. Sci. USA...Manning,C.G., Sethi,K.S., Wu,T.D. and **Brutlag**,D.L. (1997) ISMB-97, 5, 202-209). Since... ..




▶ View Citation Map

▶ Find more like this



**this article is FREE to you**

**REPEATED DNA SEQUENCES:**
**DNA Sequence Organization in *Drosophila* Heterochromatin**

 D. **Brutlag**, M. Carlson, K. Fry, and T. S. Hsleh

**Cold Spring Harb Symp Quant Biol**, Jan 1978; 42: 1137 - 1146.

... Organization In Drosophila Heterochromatin D. **Brutlag** M. Carlson K. Fry T. S. Hsleh Department...Peacock et al. 1974; Endow et al. 1975; **Brutlag** et al. 1977a). These unusual DNAs consist...000,000 bp long (Goldring et al. 1975; **Brutlag** et al. 1977a). The biological roles of... ..



▶ View Citation Map

▶ Find more like this



**this article is FREE**

**STRUCTURAL BIOINFORMATICS:**
**Development and validation of a consistency based multiple structure alignment algorithm**

 Jessica Ebert and Douglas **Brutlag**
**Bioinformatics**, May 2006; 22: 1080 - 1087.

... alignment algorithm Jessica Ebert Douglas **Brutlag** \* \*To whom correspondence should be addressed...source code is freely available at <http://brutlag.stanford.edu/software/> Contact: [brutlag@stanford.edu](mailto:brutlag@stanford.edu) Supplementary Information... ..




▶ View Citation Map

▶ Find more like this



**this article is FREE**

**Eukaryotic topoisomerase II. Characterization of enzyme turnover**

N Osheroff

**J. Biol. Chem.**, Jul 1986; 261: 9944 - 9950.

... turnover (Osheroff, N., Shelton, E. R., and **Brutlag**, D. L. (1983) J. Biol. Chem. 258, 9536-9543...turnover (Osheroff, N., Shelton, E. R., and **Brutlag**, D. L. (1983) J. Biol. Chem. 258, 9536-9543...turnover (Osheroff, N., Shelton, E. R., and **Brutlag**, D. L. (1983) J. Biol. Chem. 258, 95369543... ..



▶ View Citation Map

▶ Find more like this

# Advanced Search

<http://highwire.stanford.edu/cgi/search?>

[Advanced Search](#)[Browse](#)

- ▶ [By Title](#)
- ▶ [By Publisher](#)
- ▶ [By Topic](#)

[Personalize & Alerts](#)[Research Tools](#)[Info, Lists & Links](#)[Home](#) ▶ [For Researchers](#) ▶ [Advanced Search](#)

## ePublishing Solutions for the Scholarly Community

HighWire provides online hosting and technology solutions to publishers, management tools for librarians and unique search functionality for researchers.

### SEARCH

— Minimize search options

#### Anywhere in Text

  any  all  phrase

#### Title & Abstract only

  any  all  phrase

#### Title only

  any  all  phrase

#### Authors

 e.g. Smith, JS; Jones, DCitation Year  Vol  Page 

### Filter by

Dates  through   through  HighWire-hosted content only  Include PubMed  My Favorites only Reviews only






### BROWSE

Browse HighWire-hosted content by: ▶ [Title](#) ▶ [Publisher](#) ▶ [Topic](#)

### Personalize

[More](#)

Tailor your discovery experience with these options

-  [Table of content alerts](#)
-  [Citation alerts](#)
-  [Keyword alerts](#)
-  [PDA alerts](#)
-  [My Favorites](#)

### Research Tools

[More](#)

Advanced tools for research:

- ▶ [Citation map](#)
- ▶ [Keyword in context](#)
- ▶ [Matchmaker](#)
- ▶ [Instant Index](#)
- ▶ [Topic search](#)
- ▶ [Download to citation manager](#)
- ▶ [Full-text access to your Institution's Subscriptions](#)
- ▶ [Publications Offering](#)
  - 8 free trials
  - 46 free titles
  - 284 free back issues
  - 1234 pay-per-view options

[Advanced Search](#)
[Browse](#)

- ▶ [By Title](#)
- ▶ [By Publisher](#)
- ▶ [By Topic](#)

[Personalize & Alerts](#)
[Research Tools](#)
[Info, Lists & Links](#)

### SEARCH

— Minimize search options

Anywhere in Text

  any  all  phrase

Title & Abstract only

  any  all  phrase

Title only

  any  all  phrase

Authors

 e.g. Smith, JS; Jones, D

Citation Year  Vol  Page

### Filter by

Dates  1753 through  2010

HighWire-hosted content only  Include PubMed  My Favorites only

Reviews only




1-10 of 143 results

Format Results

For checked items

- view abstract
- download to citation manager

Citation:

Results / page:

Sort by:

[Next results](#)



#### Using stochastic roadmap simulation to predict experimental quantities in protein folding kinetics: folding rates and phi-values.

TH Chiang, MS Apaydin, DL Brutlag, D Hsu, and JC Latombe  
**J Comput Biol**, Jun 2007; 14(5): 578-93.



- Full text via Infotrieve
- Alert me when cited
- Find more like this



#### COMPUTATIONAL BIOLOGY: Dynamic use of multiple parameter sets in sequence alignment

Xiaoqiu Huang and Douglas L. Brutlag  
**Nucleic Acids Res.**, Jan 2007; 35: 678 - 686.

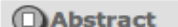


- Full text
- PDF
- View Citation Map
- Find more like this

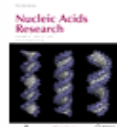


#### STATISTICS: Genotypic predictors of human immunodeficiency virus type 1 drug resistance

Soo-Yon Rhee, Jonathan Taylor, Gauhar Wadhera, Asa Ben-Hur, Douglas L. Brutlag, and Robert W. Shafer  
**PNAS**, Nov 2006; 103: 17355 - 17360.

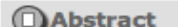


- Full text
- PDF
- extra: Supporting Information
- View Citation Map
- Find more like this



#### COMPUTATIONAL BIOLOGY: A graph-based motif detection algorithm models complex nucleotide dependencies in transcription factor binding sites

Quinn T. Newkhan, Eugene Fenthan, Gary Fan, Roberto...



- Full text
- PDF
- View Citation Map

# Citation Map

<http://highwire.stanford.edu/cgi/search?>

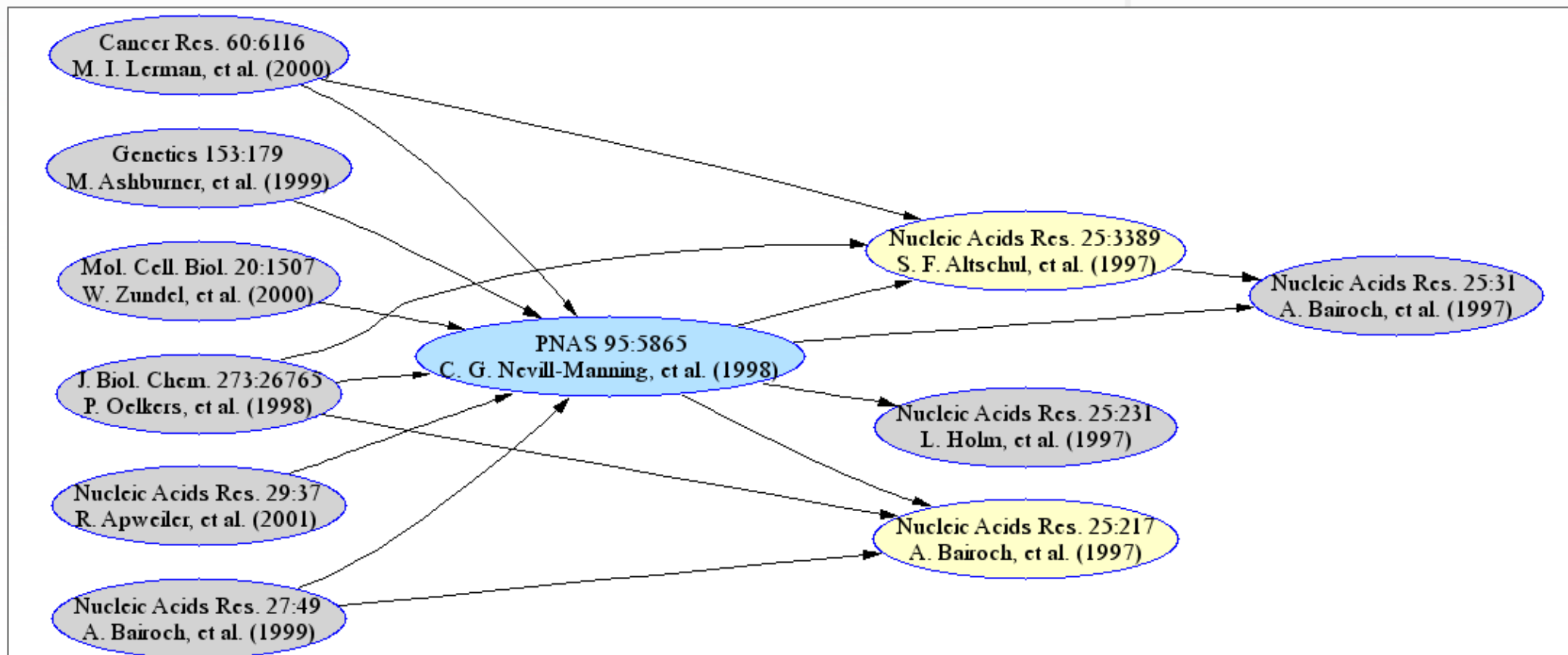
Frequently-cited articles that reference or directly relate to my chosen article [more info](#)

PNAS **COLLOQUIUM:**  
**Highly specific protein sequence motifs for genome analysis**  
Craig G. Nevill-Manning, Thomas D. Wu, and Douglas L. Brutlag  
PNAS, May 1998; 95: 5865 - 5871.

**this article is FREE**

- Abstract
- Full text
- PDF
- View Citation Map
- Find more like this

## My article's citation map



# Stanford University Libraries

<http://library.stanford.edu/>

---

- SearchWorks  
<http://searchworks.stanford.edu/>
- Databases
  - <http://searchworks.stanford.edu/databases>
- E-Journals  
<http://www.tdnet.com/stanford/>
- HighWire Press  
<http://highwire.stanford.edu/>
- Access from off-campus via proxy server
  - <https://library.stanford.edu/using/connect-campus>

# Searchworks

<http://searchworks.stanford.edu/>

SU LAIR MY ACCOUNT FEEDBACK ASK US

## Stanford University Libraries SearchWorks

**Access**

At the Library (5,788,921)  
Online (882,213)

**Format**

- Book (5,716,615)
- Journal/Periodical (293,888)
- Microformat (269,215)
- Conference Proceedings (192,263)
- Thesis (108,717)
- Music - Recording (93,065)
- Other (85,884)
  - Music - Score (83,273)
  - Map/Globe (59,424)
  - Video (45,957)
  - Manuscript/Archive (12,415)
  - Newspaper (5,241)
  - Computer File (3,638)
  - Sound Recording (3,466)
  - Image (3,065)

**Call Number**

**Location**

**Language**

Search 6,424,015 resources in Stanford's libraries

[Advanced Search](#)  
Select multiple facets and combine search terms across multiple fields

### Looking for Articles?

Articles are not included in SearchWorks yet.

- See [Databases A-Z](#) to find the best database(s) to search for your topic.
- Try [xSearch](#) to search several databases at once.

### Course Reserves

- Search the [Course Reserves Catalog](#) for print, media and e-resources set aside for classes.

### Can't find it at Stanford?

- Request it through [interlibrary borrowing](#).
- [Ask us to purchase it](#) for the libraries.

SUOLAIR
MY ACCOUNT   FEEDBACK   ASK US

Search

Advanced search

Start Over

Your Search: brutlag

Limited to: (no limits selected)

1 - 17 of 17 results
Sort by relevance ▾


▾ 20 per page

### Refine your search

Access

- At the Library (17)
- Online (7)

Format

- Book (16)
- Thesis (9)
- Manuscript/Archive (1)

Author

Publication Year

Topic

Location

Call Number

Organization (as Author)

Language

1. [A proposal for continuation of the molgen project: a computer science application to molecular biology, NFS grant MCS 78-02777. co-principal investigators: Edward A. Feigenbaum, Bruce G. Buchanan, Laurence H. Kedes, and Douglas Brutlag](#)

Corporate Author: [Stanford University. Computer Science Dept. Heuristic Programming Project. HPP-80-5.](#)

At the Library: ✔ [Mathematics & Statistics](#) » [Locked Stacks: Ask at loan desk](#) » [048080-5](#)

✘ [Mathematics & Statistics](#) » [Technical Reports](#) » [048080-5](#)

Format: Book
2. [Enzymatic mechanisms in DNA replication](#)

Author/Creator: [Brutlag, Douglas.](#)

Published: [1972](#)

At the Library: ⦿ [Special Collections](#) » [University Archives](#) » [3781 1972 B](#)

Format: Thesis, Book
3. [Enzymatic mechanisms in DNA replication \[manuscript\]](#)

Author/Creator: [Brutlag, Douglas.](#)

Published: [1972](#)

At the Library: ? [Lane](#) » [Check Lane catalog for status](#) » [3781 1972 82](#)

Format: Thesis, Book
4. [Papers, 1968-1999](#)

Author/Creator: [Brutlag, Douglas L.](#)

Published: [1968](#)

At the Library: ⦿ [Special Collections](#) » [University Archives: Request at Special Collections Desk](#) » [SC 651](#)

⦿ [Special Collections](#) » [University Archives](#) » [SC 651 ...](#)

Format: Manuscript/Archive





# Lane Library Services

<http://lane.stanford.edu/>

---

- PubMed  
<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=PubMed>
- Lane  
<http://lane.stanford.edu/>
  - Ovid
  - Lane Catalog
  - Su-Catalog
  - E-journals
  - PubMed
  - MDConsult
  - Skolar
- E-Journals
  - <http://lane.stanford.edu/biomed-resources/ej.html?a=a>



[search help >](#)

Lane Search

[Search](#)

[Dynamed](#) [PubMed](#) [UpToDate](#)

[Biomed Resources](#) [Specialty Portals](#) [Classes & Consulting](#) [History Center](#) [Using the Library](#) [About Lane](#) [How To](#)

### Palliative Care Portal

*“Lane’s Palliative Care portal provides me with a variety of resources, all in one place.”*

*Nicky Quinlan, MD  
Hospice and Palliative Medicine Fellow  
Stanford Hospital & Clinics*



[Visit Portal >>](#)

- [All Journals](#)
- [Clin-eguide](#)
- [Dynamed](#)
- [Google](#)
- [JAMA](#)
- [Lane Catalog](#)
- [Lexi-Comp](#)
- [MD Consult](#)
- [Micromedex](#)
- [Nature](#)
- [NEJM](#)
- [Ovid](#)
- [PubMed](#)
- [Scopus](#)
- [UpToDate](#)
- [Web of Science](#)

#### LANE CLASSES

- JAN 14** [EndNote: Basic to Advanced](#)  
10:00-11:30am
- JAN 15** [Finding Funding](#)  
10:00-11:30am
- JAN 16** [Introduction to Nexus Copy Number \(Software for robust and efficient analysis of DNA structural variation\)](#)  
9:30-12:30pm

[ALL LANE CLASSES >](#)

[SOM CLASSROOM SCHEDULING >](#)

#### GRAND ROUNDS

- [» Emergency](#)
- [» Medicine](#)
- [» Otolaryngology](#)
- [» Pediatrics](#)

#### BIOMED RESOURCES

- [» Journals](#)
- [» Books](#)
- [» Databases](#)
- [» Images](#)
- [» Health Statistics](#)
- [» Software](#)
- [» SMC](#)

#### MY LIBRARY

- [» MyLane](#)
- [» My DocXpress](#)
- [» My Library Account](#)

[LANE LIVE CHAT >](#)

#### FIRST TIME AT LANE?

- [» Get Started at Lane](#)
- [» Check Your Eligibility](#)
- [» Manage Your SUNet ID](#)

## Bioresearch

[Anesthesia](#)

[Biomedical Ethics](#)

**[BioResearch](#)**

[Cardiology](#)

[Clinical](#)

[Consumer Health](#)

[Emergency Medicine](#)

[Global Health](#)

[Hematology](#)

[Internal Medicine](#)

[LPCH Heart Center  
Nursing](#)

[Medical Education](#)

[Multicultural Health](#)

[Neurology](#)

[Nursing](#)

[Obstetrics & Gynecology](#)

[Oncology](#)

[Ophthalmology](#)

[Otolaryngology](#)

[Pathology](#)

### General Resources

- » [General Resources](#)
- » [Funding information](#)
- » [Protocols](#)
- » [Bioreagents](#)
- » [Lane's Bioteethics Portal](#)

### Literature & Patent Searches

- » [Literature Search Tools](#)
- » [Tools to Search Patent Data](#)

### MORE INFORMATION

- » [Essential Resources for Quantitative PCR](#)
- » [How can I download research papers programmatically?](#)
- » [How can I find information about patents?](#)
- » [Molecular biology software from the Broad Institute](#)
- » [Video: Understanding Pharmacogenomics \(Stanford course BIOMEDIN 204\)](#)
- » [What is the easiest way to find transcription start site data?](#)
- » [What is the fastest way to learn SQL?](#)
- » [What is the Online Bioinformatics Resources Collection?](#)
- » [Where can I find good summaries of bioinformatics, genomics and proteomics topics?](#)
- » [Where can I find help with designing a microarray experiment?](#)
- » [Where can I find market data for health care, including research topics?](#)
- » [Where can I find Perl resources to get me started programming in Perl?](#)

### Tools & Databases

- » [Genomes and Homology](#)
- » [PCR, Cloning and Sequence Analysis](#)
- » [Gene Expression and Function](#)
- » [Chemistry and Proteomics](#)
- » [miRNA Resources](#)
- » [High Throughput Data Analysis](#)
- » [Image Analysis](#)

### Programming & Statistics

- » [Start Programming](#)
- » [Learn Statistics](#)
- » [Lane Programming and Database Classes](#)

### KEY RESOURCES

- » [Core Research Facilities](#)
- » [Software at Lane](#)
- » [CMGM Bioinformatics Resource | summary](#)
- » [Nucleic Acid Research Annual Database Issue \(January 2010\)](#)
- » [Nucleic Acid Research Webserver Issue \(July 2010\)](#)

### NEED HELP?

- » [Ask Us](#)
- » [650-723-6831](#)
- » [Find your Library Liaison](#)
- » [Staff Directory](#)
- » [General Contact Info](#)
- » [Off-campus access](#)

### STANFORD UNIVERSITY



Stanford University  
LIBRARIES

### LEGEND

- » [Video](#) available
- » **\$:** Must Purchase
- » **CMGM** membership required



Bioresearch

choose your search >

brutlag



Search

[Biomed Resources](#)

[Specialty Portals](#)

[Classes & Consulting](#)

[History Center](#)

[About Lane](#)

[How To](#)

[Popular Links](#)

## Bioresearch Search

### PUBMED

- » [PubMed](#) 111
- » [NCBI Bookshelf](#) 1

### FULLTEXT LITERATURE SEARCH

- » [Scopus](#) 125
- » [Scirus - Journals](#) 2263
- » [HighWire](#) 2241
- » [IEEE Xplore](#) 4
- » [Engineering Village](#) 12
- » [Wiley InterScience](#)
- » [BioMed Central](#) 9
- » [PubMed Central](#) 1149

### LITERATURE SEARCH

- » [Web of Science](#) 7
- » [ISI CrossSearch](#) 0
- » [BIOSIS](#)
- » [ACM](#) 339
- » [Faculty of 1000 Biology](#) 0
- » [Faculty of 1000 Medicine](#) ?

### SEARCH ENGINES

- » [Scirus](#) 12871

### LANE SEARCH

- » [eJournals](#) 0
- » [eBooks](#) 2
- » [Databases](#) 0
- » [FAQs](#) 1

### PROTOCOLS & REAGENTS

- » [Cold Spring Harbor Protocols](#)
- » [Current Protocols](#) 5
- » [Methods in Enzymology](#) 68
- » [Nature Protocols](#) 0
- » [Bio. Procedures Online](#) 0
- » [Protocol Online](#) 0
- » [Biocompare](#) 1

### ACTIVE CLINICAL TRIALS

- » [ClinicalTrials.gov - ongoing@SU](#) ?
- » [ClinicalTrials.gov - ongoing](#) ?
- » [ClinicalTrials.gov - all](#) ?
- » [CenterWatch](#) 0

### GENES, PROTEINS & PHENOTYPES

- » [BIOBASE Knowledge Library \(Proteome\) Login](#) required 0
- » [AbMiner](#)
- » [IHOP Protein](#) 0
- » [PharmGKB](#) 0
- » [PubGene](#) ?
- » [UniProt](#) 167
- » [NCBI Gene](#) 0
- » [NCBI Genome](#) 0
- » [NCBI HomoloGene](#) 1
- » [NCBI Nucleotide/Genbank](#) 183
- » [NCBI Protein](#) 168
- » [NCBI SNP](#) 0

### BIOTOOLS

- » [Rseek](#) 10
- » [U Pittsburgh OBRC](#) 4
- » [UBC biotools](#) 3
- » [BioWareDB](#) 0
- » [MetaDB](#) 1284

### DRUGS, COMPOUNDS & STRUCTURES

- » [DrugBank](#) ?
- » [NCBI Structure](#) 1
- » [PubChem Compound](#) 0
- » [PubChem Substance](#) 0

### STANFORD-SPECIFIC

- » [CAP faculty profiles](#) 11
- » [Core facilities](#) 18
- » [COS Expertise@Stanford](#) ?
- » [Engineering faculty](#) 0
- » [Engineering laboratories](#) 0
- » [SLAC Library](#) 0
- » [Biomedical seminars](#) 0
- » [All SoM](#) 0

### FUNDING

- » [COS Grant Opportunities](#) 0

### PATENTS & TECHNOLOGIES

- » [US Patent Office](#) 809
- » [Derwent Patents](#) 0
- » [US DOD](#) 17
- » [US DOE](#)