

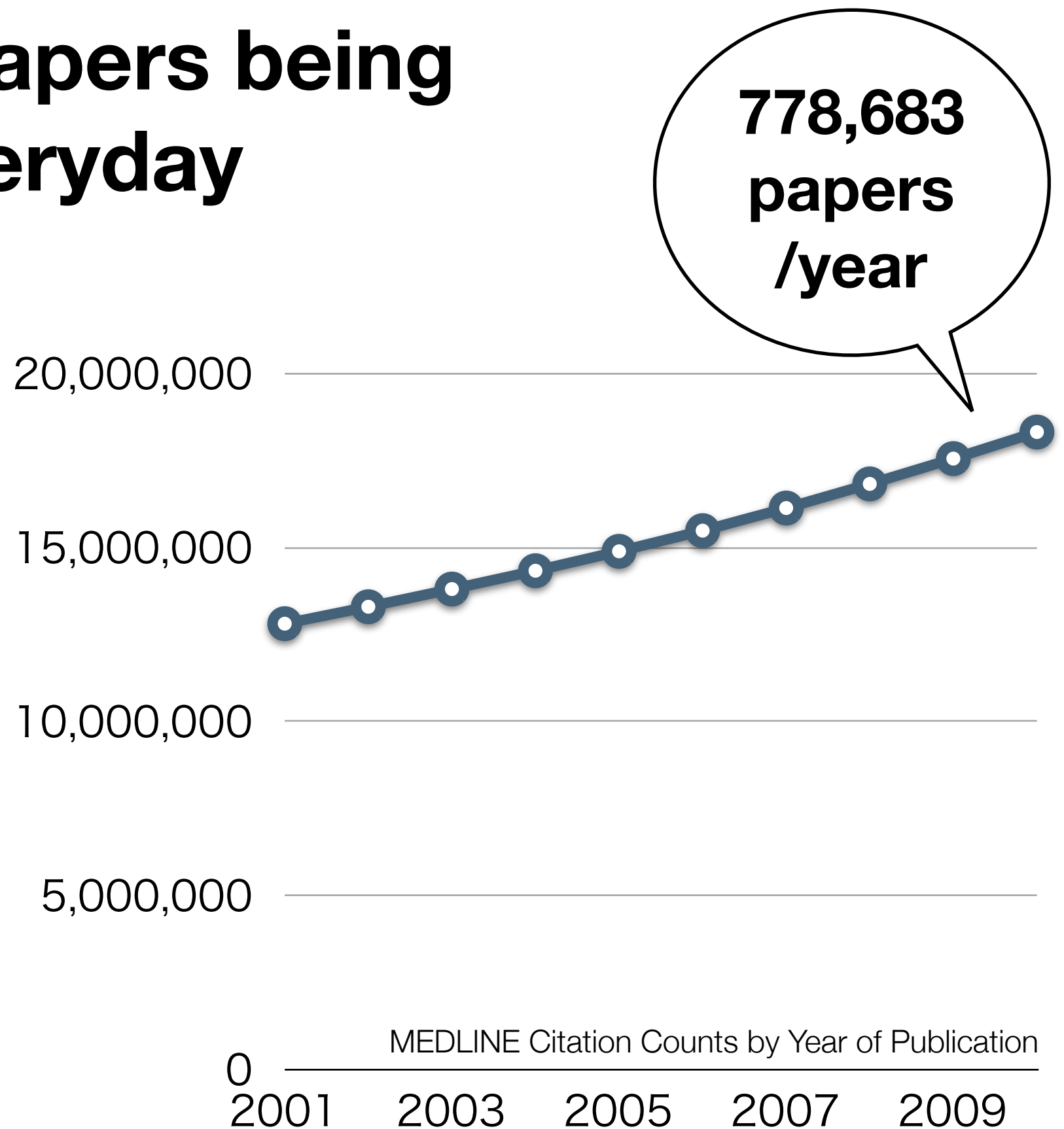
The screenshot displays the TogoDocClient application window. The title bar reads "OREFiL: an online resource finder for life sciences. - TogoDocClient". The interface is divided into several sections:

- Article Explorer (Left Sidebar):** Shows a hierarchical view of folders and files. Folder1 contains files like "ALICE\_ an algorithm to extract", "Biomedical knowledge navigatio", "OREFiL\_ an online resource find", "Rapid pathway evolution facilita", "Reconstruction of highly hetero", and "Structural basis of the water-as". Folder2 contains files like "Combinatorial patterns of histo", "Integrating text mining into the", "ReagentsCatalog.pdf", "Additional gene ontology struct", "Associating genes with gene on", "Automated discovery of struct", "Burkholderia species are ancie", "Closing gaps in the human gen", "Evaluation of techniques for in", "Evolvability suppression to stab", "FUNYBASE\_ a FUNgal phyloge", "Genome sequence of the beta-r", and "Insights into the history of the".
- Keyword Search:** A search bar at the top of the main window.
- Article Details (Main Window):** Displays information for the article "OREFiL: an online resource finder for life sciences." by Yasunori Yamamoto and Toshihisa Takagi. It includes the journal "BMC bioinformatics" (2007), DOI "10.1186/1471-2105-8-287", PubMed ID "17683589", and a link to the full text. A button "Edit Bib Info" is present.
- Abstract:** A section containing the text: "We developed OREFiL, a search system for online life science resources, which is freely available. The system's distinctive features include the ability to return up-to-date query-relevant online resources introduced in peer-reviewed papers; the ability to search using free words, MeSH terms, or author names; easy verification of each hit following links to the corresponding PubMed entry or to papers citing the URL through the search systems of BioMed Central, Scirus, HighWire Press, or Google Scholar; and quick confirmation of the existence of an online resource web page."
- Tags:** A section with tags like "TextMining", "biological-science-disciplines", "internet", and "online-systems".
- Note:** A section with the text "Users can add notes to papers."
- Rating:** A section showing a 5-star rating (5 stars).
- Search:** A section with links to "Search Personal Library for Related Articles", "Search MedLine for Related Articles", and "Search TogoDoc for Related Articles".
- Tag Explorer (Bottom Left):** Shows a list of tags including "TextMining (2)", "ToRead (1)", "Evolution (2)", and "Rapid pathway evolution facilita".
- TogoDoc Recommended Articles Search:** A table at the bottom showing recommended articles with columns for Title, Score, Rating, Author, and Journal. The table lists several articles, including "Automated Assessment of Myocard", "Statistical identification of predicti", and "Statistical identification of predicti".

**TogoDoc: Smart Recommendation and Efficient Management of Life Science Literature**

Wataru Iwasaki (Univ Tokyo)

# 1. So many papers being published everyday



**In the omics era,  
interpretation of big data  
requires more knowledge  
concerning more topics, or journals.**

**2. So many PDF papers  
in researchers' computers**



# TogoDoc runs on **Windows and MacOSX**, and provided **for free**.

The screenshot shows the TogoDoc Client website in a web browser. The browser's address bar displays <http://tdc.cb.k.u-tokyo.ac.jp/>. The website has a header with the title "Literature Management and Recommendation Service for Life Scientists". Below the header, there is a main content area with text describing the service and its benefits. On the left side, there is a sidebar with a menu and links. The main content area includes a section titled "TogoDocClient: on PCs" with a URL and a list of features. Below this, there is a section titled "Recommendation of papers recently registered to PubMed" with a sub-header "Based on the analysis". To the right of this section, there is a diagram showing the interaction between the TogoDoc Client and the TogoDoc Server via a web browser. The diagram includes a circular arrow labeled "Gooperate" and a text box stating "TogoDoc: via Web Browsers" with a URL. Below the diagram, there is a section titled "Characteristics" with two bullet points: "Easy Management" and "PubMed Recommendation".

**Literature Management and Recommendation Service for Life Scientists**

Are there many "deeply buried" PDF papers in storage disks of your computers?  
Do you have trouble checking "tsunami" of papers that are being published everyday?

TogoDoc Client is a solution for the above two problems for life scientists.  
It runs on Windows and MacOSX, and provided for free.

**TogoDocClient: on PCs**  
<http://tdc.cb.k.u-tokyo.ac.jp/>

Literature management by just downloading and saving PDF papers

- Automatic analysis
- Automatic renaming
- Tag suggestion

Recommendation of papers recently registered to PubMed  
Based on the analysis

**TogoDoc: via Web Browsers**  
<http://docman.dbcls.jp/>

Library accessible from everywhere  
Synchronization of data including PDF files between PCs

Check recommendation from portable devices

**Characteristics**

- Easy Management:** Once you tell Client where you usually save PDF papers, it automatically analyzes and manages papers if you just download and save them.
- PubMed Recommendation:** Based on the analyses, Client recommends papers in which you would be interested from those recently registered to PubMed, by communicating with the **TogoDoc server**.

**Efficient management and smart recommendation of life science literature, for Windows and MacOSX.**

**Languages**

**Menu**

- Top
- Installation
- How to Use
- How to Update
- Inquiries

**Access Your Library on Web**

**Reference**

**Developers**

**Licenses**

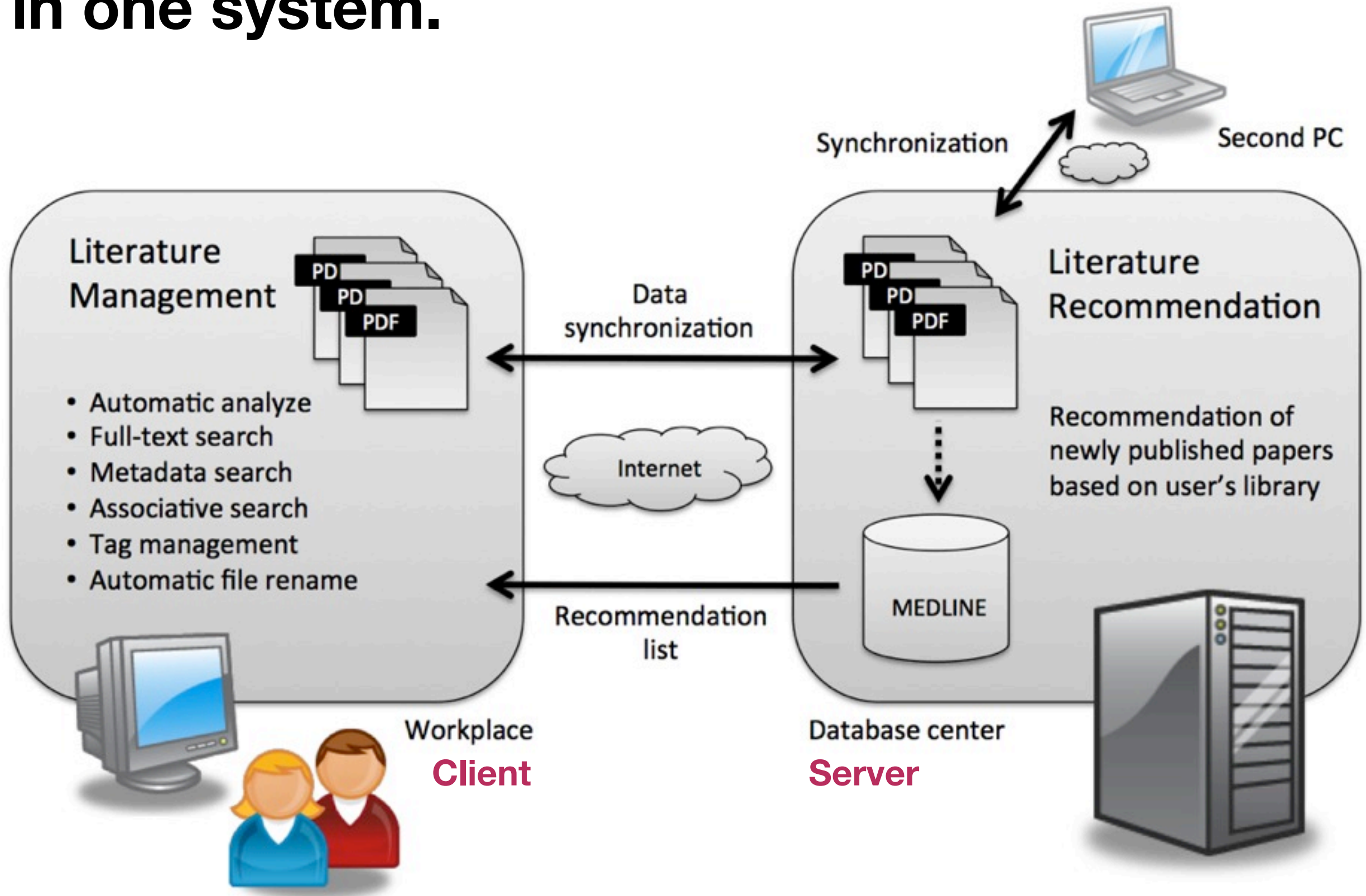
<http://tdc.cb.k.u-tokyo.ac.jp/>

# History of TogoDoc

<b>2007/08</b>	Project Launched
<b>2008/02</b>	Alpha Version
<b>2008/07</b>	Beta Version
<b>2009/12</b>	Version 1.0.4
<b>2011/02</b>	Version 1.2.4

Developed at Univ Tokyo &  
Database Center for Life Science

# Literature management and recommendation, in one system.





OREFiL: an online resource finder for life sciences. - TogoDocClient

ファイル(F) TogoDoc 検索(S) 統計情報(T) ウィンドウ(W) ヘルプ(H)

Keyword Search:

Article Explorer

- Folder1
  - \*ALICE\_ an algorithm to extr
  - Biomedical knowledge naviga
  - OREFiL\_ an online resource fi
  - Rapid pathway evolution facil
  - Reconstruction of highly heter
  - Structural basis of the water-
- Folder2
  - \*Issues in learning an ontolog
  - \*Predicting gene function from
  - \*ReagentsCatalog.pdf
  - Additional gene ontology stru
  - Associating genes with gene c
  - Automated discovery of struc
  - Burkholderia species are anci
  - Closing gaps in the human ge
  - Combinatorial patterns of hist
  - Evaluation of techniques for in
  - Evolvability suppression to st
  - FUNYBASE\_ a FUNgal phylog
  - Genome sequence of the beta

すべてのPDF: 37  
解析済み: 36, 解析失敗: 1  
未解析: 0

Tag Explorer

- TextMining (2)
- ToRead (1)
  - \*Issues in learning an ontolog
  - \*ALICE\_ an algorithm to extract
  - OREFiL\_ an online resource finde
- Evolution (2)
  - Rapid pathway evolution facilitat
  - Reconstruction of highly heterog

OREFiL: an o...

OREFiL: an online resource finder for life sciences.

[Yasunori Yamamoto, Toshihisa Takagi](#)

BMC bioinformatics 8 287

2007

DOI: [10.1186/1471-2105-8-287](#) [doi](#)

PubMed ID: [17683589](#) [Full Text](#)

[Folder1/OREFiL\\_ an online resource finder for life sciences.pdf](#)

This file was added at 2010-09-01 21:12:22 .

☒ チェック済

書誌情報の修正

概要

We developed OREFiL, a search system for online life science resources, which is freely available. The system's distinctive features include the ability to return up-to-date query-relevant online resources introduced in peer-reviewed papers; the ability to search using free words, MeSH terms, or author names; easy verification of each hit following links to the corresponding PubMed entry or to papers citing the URL through the search systems of BioMed Central, Scirus, HighWire Press, or Google Scholar; and quick confirmation of the existence of an online resource web page.

タグ

[TextMining](#) [biological-science-disciplines](#) [internet](#) [online-systems](#)

ノート

ここにメモを追加することができます。

評価

★★★★★ (5)

検索

- [関連文献の検索 \(Client\)](#)
- [関連文献の検索 \(MedLine\)](#)
- [関連文献の検索 \(TogoDoc\)](#)

Article Search

TogoDoc 推薦文献検索 - 2010/08/01以降 : 11 / 100

タイトル	スコア	評価	日付	著者	ジャーナル	追加時刻
The DBCLS BioHackathon: sta...	-6.57539	1	2010-Au...	Toshiaki Kataya...	Journal of biomedical s...	-
Automated Assessment of Myo...	-6.58227	1	2010-Au...	Katsuomi Iwak...	Circulation journal : off...	-
Statistical identification of pred...	-6.5859	1	2010-Jul-31	Yuko Kanbayas...	Anti-cancer drugs	-
Androgens in human breast car...	-6.58594	1	2010-Jun	Takashi Suzuki, ...	Medical molecular mor...	-
Synthesis. structure determina...	-6.58741	1	2010-Se...	Masahito Yoshid...	Organic letters	-

2件の問題

TogoDocからのお知らせがあります

Searching: (22%)

Win, JP



OREFiL: an online resource finder for life sciences. – TogoDocClient

Keyword Search:

**Article Explorer**

- Folder1
  - ALICE\_ an algorithm to extract
  - Biomedical knowledge navigatio
  - OREFiL\_ an online resource finder**
  - Rapid pathway evolution facilitat
  - Reconstruction of highly heteroc
  - Structural basis of the water-as
- Folder2
  - \*Combinatorial patterns of histo
  - \*Integrating text mining into the
  - \*ReagentsCatalog.pdf
  - Additional gene ontology struct
  - Associating genes with gene on
  - Automated discovery of structu
  - Burkholderia species are ancier
  - Closing gaps in the human gen
  - Evaluation of techniques for in
  - Evolvability suppression to stab
  - FUNYBASE\_ a FUNgal phyloge
  - Genome sequence of the beta-r
  - Insights into the history of the

All articles: 37  
Analyzed: 36, Failed: 1  
Unanalyzed: 0

**Tag Explorer**

- TextMining (2)
  - ToRead (1)
    - \*Integrating text mining into
    - OREFiL\_ an online resource finder**
    - Predicting gene function from
- Evolution (2)
  - Rapid pathway evolution facilitat

**OREFiL: an online resource finder for life sciences.**

[Yasunori Yamamoto](#), [Toshihisa Takagi](#)

*BMC bioinformatics* 8 287

2007

DOI: [10.1186/1471-2105-8-287](https://doi.org/10.1186/1471-2105-8-287) [doi](#)

PubMed ID: [17683589](#) [Full Text](#)

[Edit Bib Info](#)

[Folder1/OREFiL\\_ an online resource finder for life sciences.pdf](#)

This file was added at 2010-08-30 17:23:38.

☒ Checked

**Abstract**

We developed OREFiL, a search system for online life science resources, which is freely available. The system's distinctive features include the ability to return up-to-date query-relevant online resources introduced in peer-reviewed papers; the ability to search using free words, MeSH terms, or author names; easy verification of each hit following links to the corresponding PubMed entry or to papers citing the URL through the search systems of BioMed Central, Scirus, HighWire Press, or Google Scholar; and quick confirmation of the existence of an online resource web page.

**Tags**

[TextMining](#) [biological-science-disciplines](#) [internet](#) [online-systems](#)

**Note**

Users can add notes to papers.

**Rating**

★★★★★ ( 5 )

**Search**

- [Search Personal Library for Related Articles](#)
- [Search MedLine for Related Articles](#)
- [Search TogoDoc for Related Articles](#)

**Article Search**

TogoDoc Recommended Articles Search - Since 2010/08/01 : 38 / 100

Title	Score	Rating	Date	Authors	Journal	Added Date
The DBCLS BioHackathon: standard	-6.57539	1	2010-Aug-21	Toshiaki Katayama, K	Journal of biomedical semar	-
Automated Assessment of Myocard	-6.58227	1	2010-Aug-6	Katsuomi Iwakura, At	Circulation journal : official j	-
Statistical identification of predictor	-6.5859	1	2010-Jul-31	Yuko Kanbayashi, Toy	Anti-cancer drugs	-
Androgens in human breast carcino	-6.58594	1	2010-Jun	Takashi Suzuki, Yasu	Medical molecular morpholo	-
Synthesis, structure determination,	-6.58741	1	2010-Sep-3	Masahito Yoshida, Hi	Organic letters	-

New Message from TogoDoc

# Mac, EN



OREFiL: an online resource finder for life sciences. – TogoDocClient

Keyword Search:

## Article Explorer

Folder1

- ALICE\_ an algorithm to extract
- Biomedical knowledge navigatio
- OREFiL\_ an online resource find
- Rapid pathway evolution facilita
- Reconstruction of highly hetero
- Structural basis of the water-as

Folder2

- Integrating text mining into the
- Reagent Catalog.pdf
- Automated discovery of structu
- Burkholderia species are ancier
- Closing gaps in the human gen
- Evaluation of techniques for in
- Evolvability suppression to stab
- FUNYBASE\_ a FUNgal phyloge
- Genome sequence of the beta-r
- Insights into the history of the

All articles: 37  
Analyzed: 36, Failed: 1  
Unanalyzed: 0

## Tag Explorer

TextMining (2)

- ToRead (1)
- Integrating text mining into
- OREFiL\_ an online resource find
- Predicting gene function from
- Rapid pathway evolution facilita

## Literature Tab

OREFiL: an online resource finder for life sciences.

[Yasunori Yamamoto](#), [Toshihisa Takagi](#)

BMC bioinformatics 8 287

2007

DOI: [10.1186/1471-2105-8-287](#) [doi](#)

PubMed ID: [17683589](#) [Full Text](#)

[Edit Bib Info](#)

[Folder1/OREFiL\\_ an online resource finder for life sciences.pdf](#)

This file was added at 2010-08-20 17:23:38

☒ Checked

**Abstract**

We developed OREFiL, a search system for online life science resources. It is freely available. The system's distinctive features include the ability to return up-to-date query-relevant online resources introduced in peer-reviewed papers; the ability to search using free words, MeSH terms, or author names; easy verification of each hit following links to the corresponding PubMed entry or to papers citing the URL through the search systems of BioMed Central, Scirus, HighWire Press, or Google Scholar; and quick confirmation of the existence of an online resource web page.

**Tags**

[TextMining](#) [biological-science-disciplines](#) [internet](#) [online-systems](#)

**Note**

Users can add notes to papers.

**Rating**

★★★★★ ( 5 )

**Search**

- [Search Personal Library for Related Articles](#)
- [Search MedLine for Related Articles](#)
- [Search TogoDoc for Related Articles](#)

## Search/Recommendation Pane

Article Search

TogoDoc Recommended Articles Search - Since 2010/08/01 : 38 / 100

Title	Score	Rating	Date	Authors	Journal	Added Date
The DBCLS BioHackathon: standard	-6.57539	1	2010-Aug-21	Toshiaki Katayama, K	Journal of biomedical semar	-
Automated Assessment of	-6.5859	1	2010-Jul-31	Yuko Kanbayashi, Toy	Anti-cancer drugs	-
Statistical identification of predictor	-6.58594	1	2010-Jul-31	Takashi Suzuki, Yasu	Medical molecular morpholo	-
Androgens in human breast carcino	-6.58741	1	2010-Jul-31	Motohiro Yoshida, Hi	Organic letters	-

New Message from TogoDoc | Searching: (74%)



OREFiL: an online resource finder for life sciences. – TogoDocClient

Keyword Search:

**Article Explorer**

- Folder1
  - ALICE\_ an algorithm to extract
  - Biomedical knowledge navigatio
  - OREFiL\_ an online resource find
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  - Reconstruction of highly hetero
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  - \*ReagentsCatalog.pdf
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  - Closing gaps in the human gen
  - Evaluation of techniques for in
  - Evolvability suppression to stab
  - FUNYBASE\_ a FUNgal phyloge
  - Genome sequence of the beta-r
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All articles: 37  
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[Yasunori Yamamoto](#), [Toshihisa Takagi](#)

*BMC bioinformatics* 8 287

2007

DOI: [10.1186/1471-2105-8-287](#) [doi](#)

PubMed ID: [17683589](#) [Full Text](#)

[Edit Bib Info](#)

[Folder1/OREFiL\\_ an online resource finder for life sciences.pdf](#)

This file was added at 2010-08-30 17:23:38 .

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**Abstract**

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[TextMining](#) [biological-science-disciplines](#) [internet](#) [online-systems](#)

**Note**

Users can add notes to papers.

**Rating**

★★★★★ ( 5 )

**Search**

- [Search Personal Library for Related Articles](#)
- [Search MedLine for Related Articles](#)
- [Search TogoDoc for Related Articles](#)

**Tag Explorer**

- TextMining (2)
  - \*Integrating text mining into
  - OREFiL\_ an online resource find
  - Structural basis of the water-as
- Evolution (2)
  - Rapid pathway evolution facilita
  - Reconstruction of highly hetero

**Article Search**

TogoDoc Recommended Articles Search - Since 2010/08/01 : 38 / 100

Score	Rating	Date	Authors	Journal	Added Date
-6.57539	1	2010-Aug-21	Toshiaki Katayama, K.	Journal of biomedical semar	-
-6.58227	1	2010-Aug-6	Katsuomi Iwakura, At	Circulation journal : official j	-
-6.58594	1	2010-Jun	Takashi Suzuki, Yasuh	Medical molecular morpholo	-
-6.58741	1	2010-Sep-3	Masahito Yoshida, Hi	Organic letters	-

New Message from TogoDoc

Searching: (74%)

## Easy Management:

Once you tell Client where you usually save PDF papers, it automatically analyzes and manages papers if you just download and save them.



**PubMed Recommendation:**

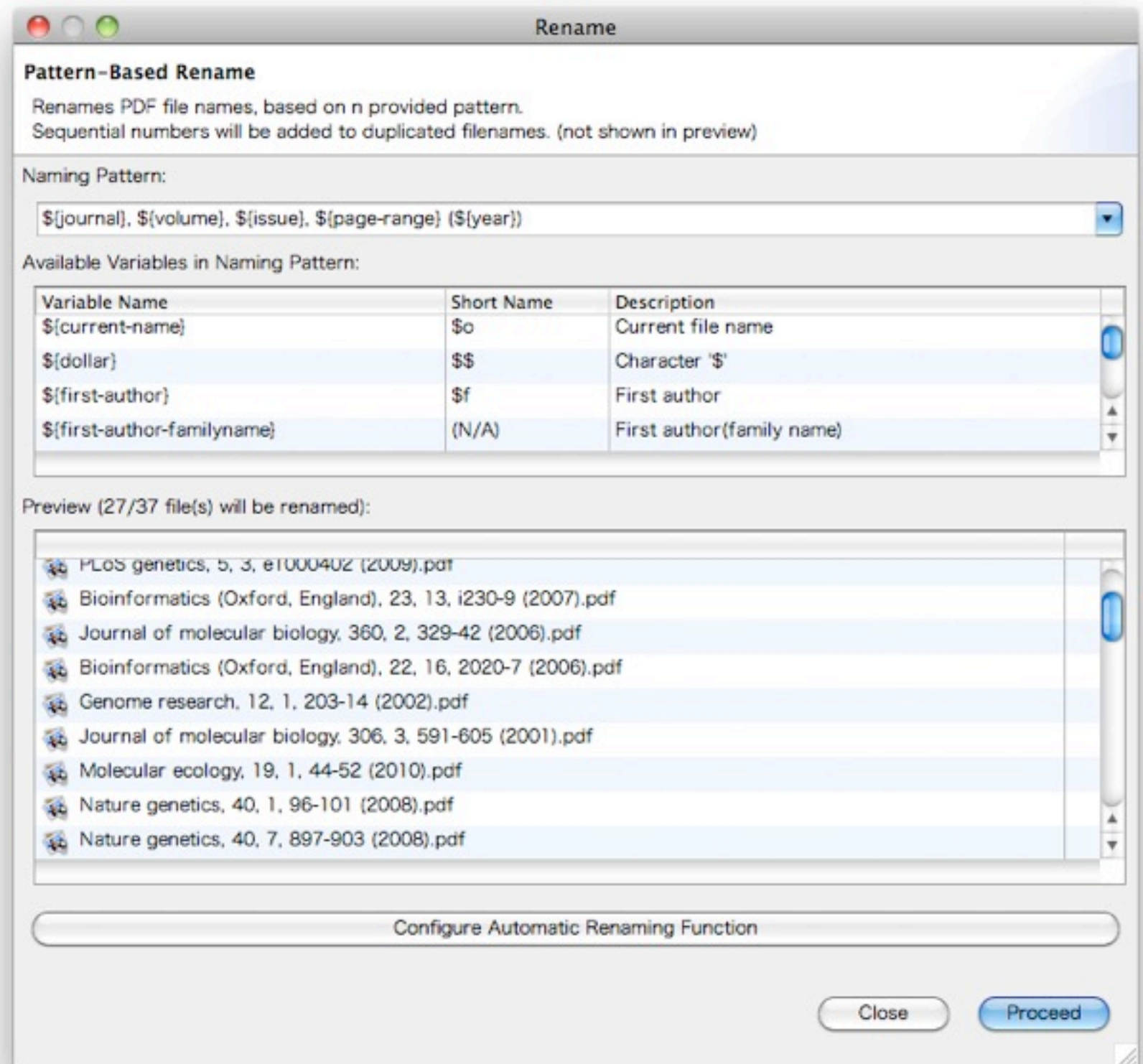
Based on the analyses, Client recommends papers in which you would be interested from those recently registered to PubMed, by communicating with the TogoDoc server, using words in the texts, MeSH terms, authors, and journal types, which reflect researchers' interest.

The screenshot shows the TogoDocClient interface. The main window displays a search result for 'OREFiL: an online resource finder for life sciences.' by Yasunori Yamamoto and Toshihisa Takagi. The left sidebar shows a folder structure with various articles. The bottom panel shows a table of recommended articles.

Title	Score	Rating	Date	Authors	Journal	Added Date
The DBCLS BioHackathon: standard	-6.57539	1	2010-Aug-21	Toshiaki Katayama, K	Journal of biomedical semar	-
Automated Assessment of Myocard	-6.58227	1	2010-Aug-6	Katsuomi Iwakura, At	Circulation journal : official j	-
Statistical identification of predictor	-6.5859	1	2010-Jul-31	Yuko Kanbayashi, Toy	Anti-cancer drugs	-
Androgens in human breast carcino	-6.58594	1	2010-Jun	Takashi Suzuki, Yasu	Medical molecular morpholo	-
Synthesis, structure determination,	-6.58741	1	2010-Sep-3	Masahito Yoshida, Hi	Organic letters	-

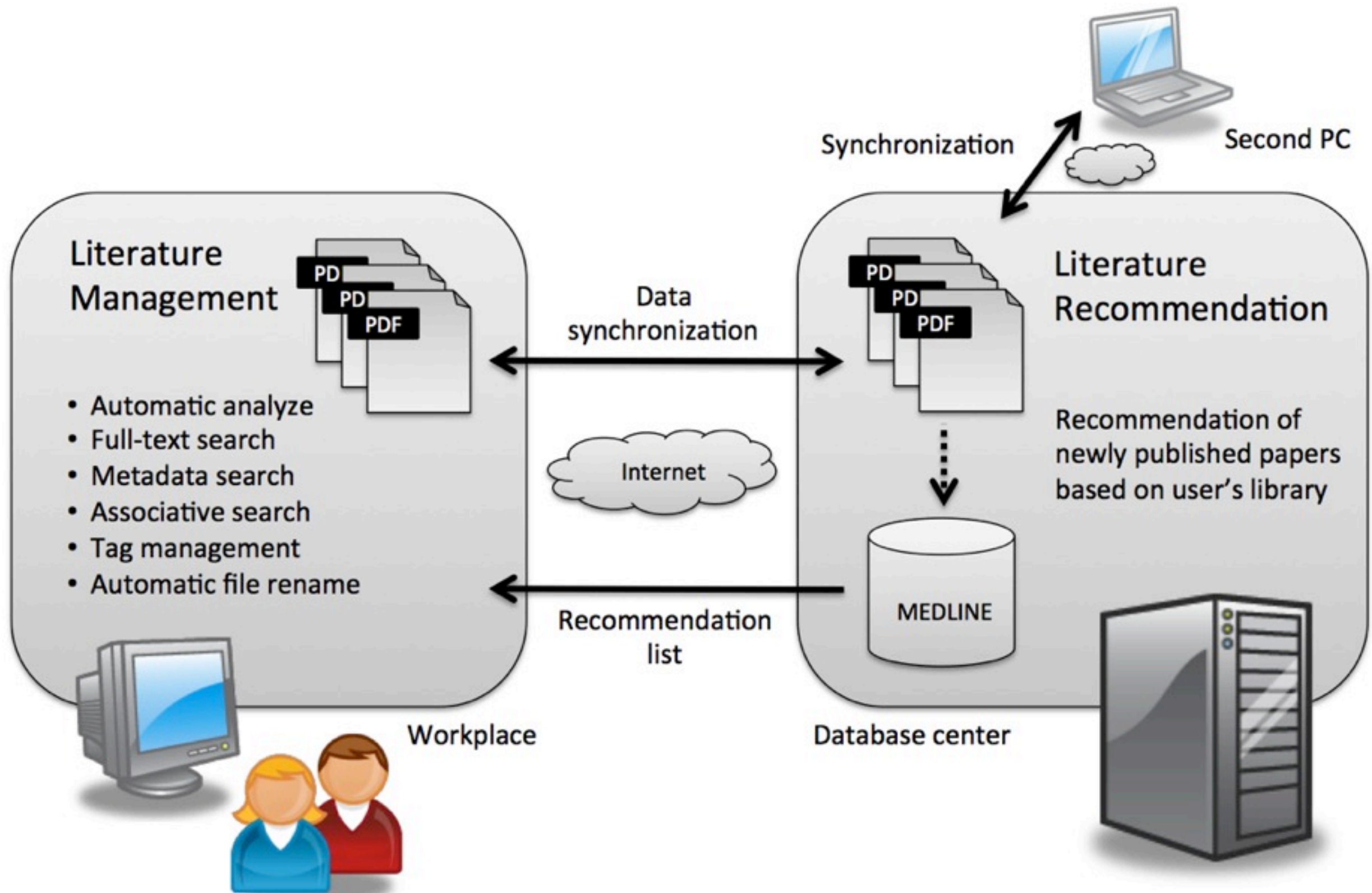
New Message from TogoDoc | Searching: (74%)





## Useful Functions:

Client offers useful functions of automatic renaming of PDF filenames, associative search of past-read papers, etc.



## Synchronization:

Literature libraries are synchronizable b/w server and multiple computers.

# TogoDoc server:

Library is also accessible via **web browsers**

The screenshot shows the TogoDoc by DBCLS web interface. The browser address bar displays `https://docman.dbcls.jp/pubmed_recom`. The page title is "TogoDoc by DBCLS". Below the title, it shows the user's ID: `http://openid.dbcls.jp/user/togodoc`. There are links for [ヘルプ](#) and [ログアウト](#). A status message indicates the total size of stored PDF files: 13.42 MB (Max: 7 GBytes).

The interface includes a navigation bar with tabs: [文書の登録](#), [登録文書の操作](#), and [お薦めタグの取得](#).

On the left, there is a "Menu" section with a "タグ" (Tag) list containing checkboxes for: evolution, human-genome, mimosa, proteins, TextMining, and TextMining/ToRead. Below this are buttons for "絞り込" (Filter), "解除" (Reset), and "タグ削除" (Delete Tag). At the bottom of the menu is a section for "新規タグ作成" (Create New Tag) with instructions: "Alpha-numeric, dash(-), underscore(\_), or comma" and a "作成" (Create) button.

The main content area displays a table of documents. Above the table, there are controls for "チェックした項目に対する操作" (Operations for checked items), including buttons for "削除" (Delete), "タグ付け" (Tagging), "タグ解除" (Untagging), and "書誌情報取得" (Get Bibliographic Information). There are also links for "全ての項目を選択" (Select all items) and "全ての選択を解除" (Deselect all items), and a "Ratingの反映" (Reflect Rating) button. The table has columns for "Check", "Rating", "TITLE (Click ● to read a full-text)", "DATE", "UPDATED", and "PDF". The PDF column contains buttons for "ファイルを選択" (Select File) and "ファイルが未選択です" (File is not selected).

Check	Rating	TITLE (Click ● to read a full-text)	DATE	UPDATED	PDF
<input type="checkbox"/>	1	(●) Structural basis of the water-assisted asparagine recognition by asparaginyl-tRNA synthetase.	2006 Jul 07	2010.10.07	ファイルを選択 ファイルが未選択です
<input type="checkbox"/>	1	(●) Reconstruction of highly heterogeneous gene-content evolution across the three domains of life.	2007 Jul 01	2010.08.30	OPEN DEL
<input type="checkbox"/>	1	(●) Using indirect protein interactions for the prediction of Gene Ontology functions.	2007	2010.08.30	OPEN DEL
<input type="checkbox"/>	1	(●) ALICE: an algorithm to extract abbreviations from MEDLINE.	2005 Sep	2010.08.30	OPEN DEL
<input type="checkbox"/>	1	(●) Biomedical knowledge navigation by literature clustering.	2007 Apr	2010.08.30	OPEN DEL
<input type="checkbox"/>	1	(●) Rapid pathway evolution facilitated by horizontal gene transfers across prokaryotic lineages.	2009 Mar	2010.08.30	OPEN DEL
<input type="checkbox"/>	1	(●) Unsupervised method for automatic construction of a disease dictionary from a large free text collection.	2008	2010.08.30	OPEN DEL
<input type="checkbox"/>	1	(●) Combinatorial patterns of histone acetylations and methylations in the human genome.	2008 Jul	2010.08.30	OPEN DEL
<input type="checkbox"/>	1	(●) Transcription factors bind thousands of active and inactive regions in the Drosophila blastoderm.	2008 Feb	2010.08.30	OPEN DEL
<input type="checkbox"/>	1	(●) Closing gaps in the human genome with fosmid resources	2008 Jan	2010.08.30	OPEN DEL



# Special features available on TogoDoc server



TogoDoc by DBCLS

あなたのID: <http://openid.dbcls.jp/user/togodoc>

[ヘルプ](#) | [ログアウト](#)

保存されているPDFファイルの総容量: 13.42 MB (Max: 7 GBytes)

[文書の登録](#) | [登録文書の操作](#) | [お薦めタグの取得](#)

MeSHタームによる対象文献群に対するキーワードリストです。タグを付ける際の参考にご利用下さい。

Docs列には該当するMeSHタームに関連する文献数が表示されており、一つはそのタームが付られている文献数、もう一方は更にそのタームの下位概念のタームが付られている文献も含めた数です。

この下に表もしくは「Loading...」が表示されていない場合はリロードして下さい。

キーワードの取得対象文書の内容が多岐に渡っている場合は何も得られないことがあります。

Check	Keyword	MeSH Term	Docs
<input type="checkbox"/>	information-storage-and-retrieval	Information Storage and Retrieval	0304
<input type="checkbox"/>	natural-language-processing	Natural Language Processing	0202
<input checked="" type="checkbox"/>	human-genome	Genome, Human	0202
<input type="checkbox"/>	artificial-intelligence	Artificial Intelligence	0202
<input type="checkbox"/>	gene-components	Gene Components	0101
<input type="checkbox"/>	chromosome-mapping	Chromosome Mapping	0202
<input type="checkbox"/>	molecular-evolution	Evolution, Molecular	0202
<input type="checkbox"/>	medical-dictionaries	Dictionaries, Medical	0101
<input type="checkbox"/>	aspartate-tma-ligase	Aspartate-tRNA Ligase	0101
<input type="checkbox"/>	pyrococcus-horikoshii	Pyrococcus horikoshii	0101
<input type="checkbox"/>	pubmed	PubMed	0102
<input type="checkbox"/>	blastoderm	Blastoderm	0101
<input type="checkbox"/>	abbreviations-as-topic	Abbreviations as Topic	0101

Refinement of recommendations by focusing on particular keywords

Permalinks make recommendations available via smartphones etc.



Permalinkの取得

下記URLを保存することにより、ログインせずに常に最新の推薦結果を取得できます。  
PubMed Related Articlesを利用する場合は、先方の仕様によりスコアは全てゼロになります。  
6ヶ月以上アクセスの無い場合はURLが無効になることがあります。

[Permalink \(HTML\)](#)

[Permalink \(ATOM\)](#)

[Permalink \(RSS\)](#)

[Permalink \(JSON\)](#)



## Technology Keywords

**Java:** TogoDoc software is implemented in Java.

**Eclipse Rich Client Platform:** TogoDoc software platform.

**JPedal:** Java library for analyzing PDF.

**LAMP:** Server is deployed using Linux, Apache, MySQL, Perl.

**Tokyo Cabinet:** Server-side database manager.

**OpenID:** Authentication protocol for sharing a single account.

**JSON:** Data transfer format b/w server and client.

**RSS/ATOM:** Data transfer format for RSS readers.

**PubMed/MEDLINE:** Literature databases at NCBI.

**NCBI E-Utilities:** API to access PubMed.

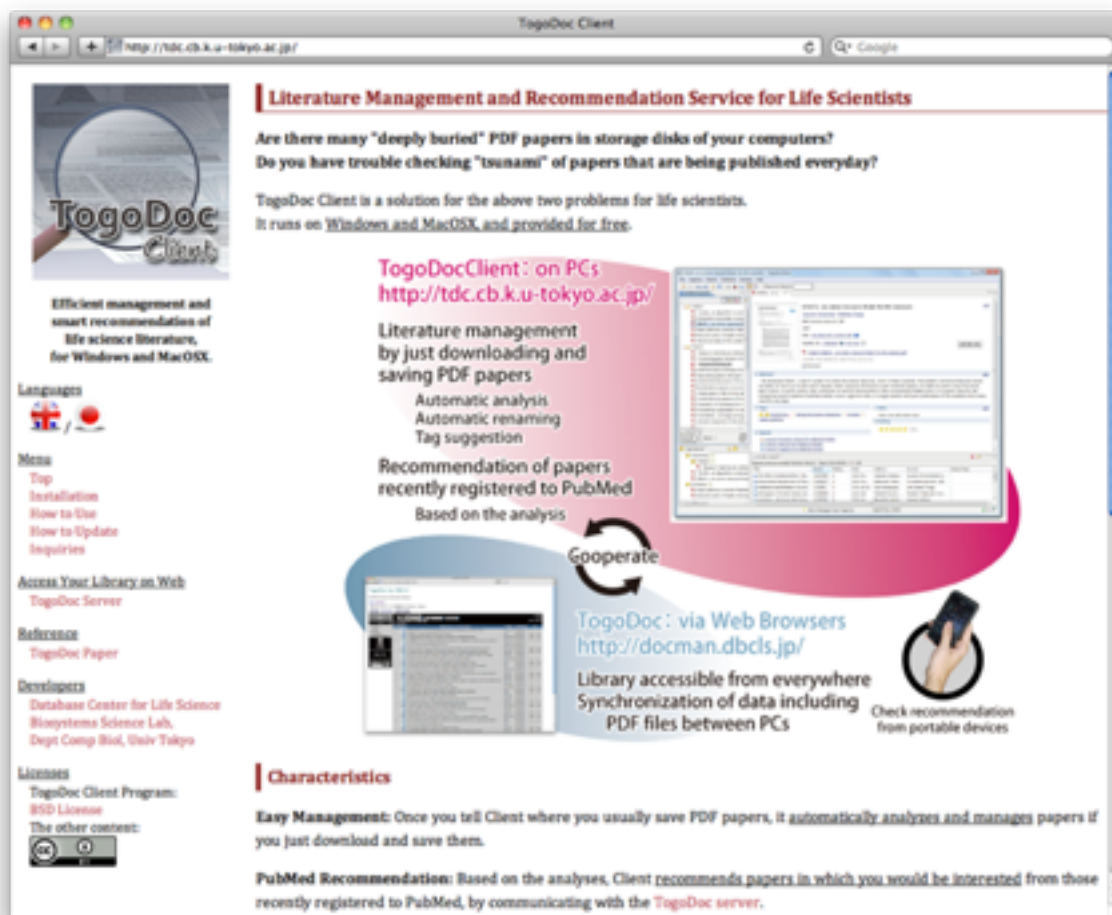
**Lemur/Indri:** Information retrieval toolkit.

**MeSH:** Subject headings in MEDLINE.

**BibGlimpse:** Bibliographic analyzer.

# Want to try TogoDoc? Search “TogoDoc”!

Interested in Technology?  
**Read our paper!**



<http://tdc.cb.k.u-tokyo.ac.jp/>



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# To promote research in "information flood"

- ✓ It is necessary to supplement our information processing ability.
- ✓ Usually, computers are not good at making such subjective judgements; though,
- ✓ fortunately, the literature sets can easily quantify researchers' interest in a very compact and machine friendly manner, and may have high potential.

# Lessons from TogoDoc Development

- ✓ Literature is the key in promoting research activities
- ✓ In addition to (or, together with) solving the legal, economical, and social issues,
- ✓ Research and development on literature may promote research as a whole.
- ✓ **Who does it?**