National Center for Biotechnology Information (US), Bethesda (MD)

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Bookshelf, the books division of the NLM Literature Archive (LitArch) at the National Center for Biotechnology Information (NCBI), is an online searchable collection of books, reports, databases, and other scholarly literature in biology, medicine, and the life sciences. This documentation describes the Bookshelf project and features for accessing the literature and addresses some commonly asked questions.
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Introduction

Created: September 30, 2010; Updated: February 18, 2014.

Bookshelf is an online searchable collection of more than 1000 books, reports, databases, and other scholarly literature in biology, medicine, and the life sciences developed and managed by the National Center for Biotechnology Information (NCBI) in the National Library of Medicine (NLM) at the National Institutes of Health.

As the books division of the NLM Literature Archive (NLM LitArch), the digital repository of full-text literature, Bookshelf serves not only to preserve and maintain free access to electronic biomedical literature, but through its integration with other NCBI resources, such as PubMed, Gene, OMIM, and PubChem, it fosters both intentional and serendipitous discoveries.

Each publication on Bookshelf is divided into searchable units of content based on the organization of parts, chapters, sections, subsections, etc, within the individual publication. The entry-point for a user is a page within the book usually found by a search.

Once browsing this book page, it is possible to navigate around a whole unit of content. The size of the unit of content and its interconnection with other parts of the book will depend on both the organization of the book and the wishes of the publisher.

Searching Bookshelf

You may search across all content, or one book at a time in Bookshelf. To search across the entire Bookshelf resource, type a word or phrase into the Search box at the top of the Bookshelf homepage and click Search. You may search one book at a time by selecting a book listed on the Browse Titles page. Simply click on the book's cover or hyperlink to view the Table of Contents page. There is a Search this book box located under the book's metadata and cover thumbnail. Enter one or more terms to query the book. Your search results will be displayed on a separate page and organized by Relevance. To query the entire Bookshelf again, use the Search box set to 'Books' at the top of the screen (See Searching Bookshelf for more information).

Browsing versus Searching

Browsing allows you to "click your way" through a Bookshelf publication. Searching, on the other hand, requires the user to enter a search term to retrieve books that contain the specific term. Every publication in Bookshelf is fully searchable, but not all publications can be browsed. Browsable publications include a hyperlinked Table of Contents, allowing you to view the publication chapter by chapter. All books created at the National Library of Medicine (NLM) and by the National Center for Biotechnology Information (NCBI) are browsable. Books that cannot be browsed are accessible by using the Search.
this book box on the book's Table of Contents page. Whether books are browsable depends on agreements made with the publishers.

Integration with Other NCBI Databases

Through links to other resources at NCBI, such as PubMed, PMC, PubChem Substance, Gene, and OMIM, Bookshelf enables readers to discover relevant biomedical information (see Figure 1). A number of full-text books, reports and databases hosted in Bookshelf can be accessed through links in their corresponding entry in PubMed, a database of citations and abstracts for journal articles, books and documents (see the NLM Technical Bulletin for more information). PubMed and Bookshelf are also interlinked by 1) links in PubMed to publications in Bookshelf that have cited a PubMed citation in their bibliography, and 2) links to PubMed citations from articles cited in publications on Bookshelf.
Copyright, Permissions, and Conditions of Use

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Crawlers and other automated processes may NOT be used to systematically retrieve content from the Bookshelf web site, and bulk downloading of books is prohibited. Bookshelf does have two auxiliary services, the NLM LitArch OAI service and NLM LitArch FTP service, that may be used to download certain content in bulk.

Information for Authors and Publishers

Bookshelf strives to represent the range of biomedical, health, and life sciences books and resources available to scientists, health professionals, educators, students, and consumers. Specialist research, resources for university-level teaching, works on methods and procedures, and clinical reports and guidelines are all included. See Bookshelf’s Information for Authors and Publishers page about how to propose a publication, the review process, and the submission of data.
Quick Start Guide

Created: September 30, 2010; Updated: August 27, 2013.

From Bookshelf’s Browse Titles page you may view all of Bookshelf’s titles by title, first author/editor, publisher, publication year or type, or begin searching across the entire resource. You may browse and search across all content, or one book at a time.

By clicking on a book’s cover image or hyperlinked title, you may access an individual publication’s Table of Contents page, from which you can begin browsing or searching the contents of that particular book.

Search results will be displayed on a separate page and organized by relevance (see Displaying Your Search Results).

For a quick look at Bookshelf and its features, also visit the Tutorials page.

Search Tips

You may search Bookshelf like any other NCBI database, namely by

- searching on any word
- restricting the search term to a certain field using Facets
- using the Advanced Search option to search multiple fields, or
- applying filters to properties.

Here are some representative searches:

<table>
<thead>
<tr>
<th>Find books by...</th>
<th>Search text</th>
</tr>
</thead>
<tbody>
<tr>
<td>free text</td>
<td>mood sleep disorders</td>
</tr>
<tr>
<td>author</td>
<td>alberts[au]</td>
</tr>
<tr>
<td>editor</td>
<td>pagon[ed]</td>
</tr>
<tr>
<td>title</td>
<td>Lactose Intolerance[Title]</td>
</tr>
<tr>
<td>publisher</td>
<td>National Academies Press[Publisher]</td>
</tr>
<tr>
<td>publication date (year)</td>
<td>2010[Year of publication]</td>
</tr>
</tbody>
</table>

See Advanced Searching for more information about building specialized searches, viewing your search history, saving search results and viewing search details.
Figure 1. **Table of Contents** page of a browsable book. A) Clicking on “Bookshelf” at the top left corner of the page will return you to the Bookshelf homepage. B) The hyperlinked PMID number will take you to a publication's corresponding citation in PubMed. C) You can access a publisher website by clicking on the publisher's link. D) For information about requesting permission to use copyrighted material, click on the Copyright Notice link to access the copyright statement (also available at the bottom of the page). E) To search within a book use the **Search this book**. F) If the publication is browsable, the **Contents** will be hyperlinked, allowing you to view the publication chapter by chapter. G) To expand or collapse the entire **Contents** of a publication, use these links. H) The “Views” panel contains a PubReader link to a reader-friendly version of any page of a browsable book designed primarily for tablets and other small screen devices, a Print View link to a print friendly version of any page of a browsable book, a Cite this Page link to the citation for the book or resource (based on NLM style), and a link to a PDF version of the title. I) Links to related PubMed abstracts can be found in the “Related citations in PubMed” panel on right. J) The Next button will take you to the first page of the book's contents.
Browsing Bookshelf

From the Bookshelf Homepage

Browsing allows you to “click your way” through Bookshelf and its publications. From the Bookshelf homepage, you may browse New & Updated content and Featured Titles. New & Updated includes new books and resources added to Bookshelf and books and resources on Bookshelf that have been recently updated with a new chapter. Click on “See more…” to access the full New & Updated list and additional information about these titles, such as the date new books or chapters were added to Bookshelf. By clicking on a book’s cover image or hyperlinked title, you may access its Table of Contents page (see Figure 1).

To return to the Bookshelf homepage from any page of a publication, click on “Bookshelf” in the top left corner.

From the Browse Titles Page

You may begin browsing the contents of the entire Bookshelf via the Browse Titles page, which allows you to view and sort contents by title or publication date (see Figure 2, and Browsing Tutorial video). To narrow the list of titles by particular terms in the titles and/or contributors, enter one or more terms in the “Filter term” box and click the Go button. Or you may filter the list by clicking on the particular subjects, types of resource, and/or publishers that interest you (see Figure 3). By default only current titles in Bookshelf will display on the Browse Titles page. To view all titles in Bookshelf, including previous versions or editions, or content that is no longer considered current by its authors/publisher, you must select “Include previous versions/editions” in the Versions/Editions panel (see Figure 3).

To temporarily send titles to the clipboard so that you can come back to them later, use the check boxes to select titles, click on the Send to link, and select Clipboard. If no check boxes are selected, the first 500 titles displaying will be sent to the clipboard.

You may also save titles to a text file, CSV file, or e-mail them by clicking on the Send to link, and selecting File to save as a text or CSV file or E-mail to send them to a particular e-mail address. You may either select to send particular titles listed by using the check boxes, or have the first 1000 displayed titles saved in a text file or e-mailed (see Figure 4a).

For more information about using the clipboard, saving as a text file and e-mailing results, see Saving and E-mailing Results and Searches.

If you’d like to save a particular page of displayed titles, such as the entire list of contents, or a list of contents filtered by a term or one or more categories, click on Save Link. You may then copy the provided link to this page, and paste it to your browser to bookmark it, or send it to others to save (see Figure 4b).
By clicking on a book's cover thumbnail or hyperlinked title, you may access its Table of Contents page (see Figure 1). Many publications are also available in PDF format, so you can download a copy to your computer.

**From a Publication’s Table of Contents**

Each publication on Bookshelf is divided into searchable units of content based on the organization of parts, chapters, and sections within the individual publication. These units of content are listed under the Contents section of the Table of Contents page. You can expand or collapse all of the main units of Contents by using the Expand All and Collapse All links on the Table of Contents page (see Figure 1).

If the publication is browsable, the Contents will be hyperlinked, allowing you to view the publication chapter by chapter. If a publication is not browsable, there will be a notification on the publication's pages. Whether publications are browsable depends on

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**Figure 2.** Sorting the Browse Titles page. Bookshelf’s titles are by default sorted by publication date, with the most recent titles at top. To alphabetically sort contents by title, click on the Display Settings link, change the selection to Title, and click on Apply. To sort by reverse publication date (so that oldest titles appear at top), select both Pub Date and Reverse. To sort by reverse alphabetical order, select both Title and Reverse. By clicking on a book's cover thumbnail or hyperlinked title, you may access its Table of Contents page (see Figure 1). Many publications are also available in PDF format, so you can download a copy to your computer.
agreements made with the publishers. Publications that cannot be browsed are accessible by using the Search this book box on a page of that publication or by querying the Bookshelf (see Figure 5). Most publications on Bookshelf (> 95%) are fully browsable. When navigating through the pages of a browsable publication, you can view the publication’s hyperlinked Contents or return to the Table of Contents page by clicking on the Contents drop-down menu (see Figure 6, and Inside a Book Tutorial video).
Once you have landed on a particular page of content, such as a chapter, via a search query, your search terms will be bolded or highlighted if this is selected in your My NCBI preferences. Your particular search terms will remain bolded or highlighted until you’ve conducted a new search query, you change your My NCBI settings to not highlight search terms, or the next day.

You can browse the main sections of a page by looking at the hyperlinked In this Page section. It is also possible to quickly navigate from section to section within a chapter by clicking on the Go to drop-down menu (see Figure 7, and Inside a Book Tutorial video).

If the publication is browsable, you can use the Contents drop-down menu (see Figure 6) at the top and bottom of the page to click on another part, chapter or section you would like to view.

To return to the publication’s Table of Contents page, click on the Table of Contents link at the top right of the Contents drop-down menu or under the book details. You can also return to the Table of Contents page by clicking on the publication’s cover thumbnail. To return to the Bookshelf homepage, click on “Bookshelf” in the top left corner (see Figure 7).
Figure 4b. Saving the link of a page of filtered titles. Click on the Save Link to get the link to the page with your filtered results (A).
**Figure 5.** Table of Contents page of a non-browsable book. **A)** Non-browsable books are indicated with a notice at the top of the page; **C)** theirContents will not be hyperlinked so you cannot view the publication chapter by chapter. **B)** Although these books cannot be browsed, they are searchable by using the Search this book box under details about the book.
When navigating through the pages of a browsable publication, you can view the publication’s hyperlinked Contents by clicking on the Contents drop-down menu. To return to the Table of Contents page, click on the link at the top right of the menu.
Figure 7. Chapter page. A) You may browse a chapter's main sections by looking at the hyperlinked In this Page section on the chapter page. B) It is also possible to quickly navigate from section to section within a chapter by clicking on the Go to drop-down menu. C) To return to the publication's Table of Contents page, click the publication's cover thumbnail. D) The PubReader link in the “View” panel directs to a reader-friendly version of the page designed primarily for tablets and other small screen devices, and the Cite this Page link provides a citation for the chapter or part (based on NLM style). E) Search terms are bolded or highlighted on a page if you have selected this as a My NCBI preference.
Searching Bookshelf

Created: September 30, 2010; Updated: August 9, 2017.

You may search across all content, or one book at a time in Bookshelf. To search across the Bookshelf, type a word or phrase into the Search box at the top of the Bookshelf homepage and click Search (see Search Tutorial video). The content of the Books database is searched, and a results page will be displayed according to the number of items found. Previous versions or editions of content in Bookshelf, and content that is no longer considered current by its authors/publisher, are only included in the search results when selected using the Facets function. See the Facets and Advanced Search sections for creating other specialized searches.

You may search one book at a time by selecting a book from the list of titles on the Browse Titles page. Simply click on the book's cover image or hyperlink to view the Table of Contents page. There is a Search this book box located under the book's title and details. Enter one or more terms to query the book. Your search results will be displayed on a separate page and Sorted by Relevance (See Displaying Your Search Results for more information, including additional sorting options). If the book has an “Archive” watermark on its pages, or a link at top of the page to a more recent version or edition in Bookshelf, then it will not be searchable unless you select to include previous versions or editions in the search results using the Facets search function.

Facets

You can limit your search by previous versions or editions, publication year, dates, resource type, and specific search fields by following these steps:

1. Choose from any of the filters available on the left side of the search results page.
2. To access specific search fields, click the Show additional filters link, select Search fields, and press Show. Then press Choose under Search fields at the bottom of the filters menu. Select a search field and click “Apply” to refine your search.
3. If necessary, make changes to the search terms in the search box or enter a new search term.
4. Click Search.
5. To clear specific search fields, select Clear next to the field you would like to eliminate. To clear all filters, click Clear all at the bottom of the filters menu.

Note: When Filters are selected, a Filters Activated message will display on the results page. To turn off Filters click Clear all.

For an example of how to use this feature, see the Using Facets Tutorial video.
Previous versions or editions

Previous versions or editions of content in Bookshelf, or content that is no longer considered current by its authors/publisher, will not be included in search results or be searchable unless you select this option.

Publication Date

To limit your search results by a book or resource's publication date, choose one of the specific year options listed or choose the menu option **Custom range** to select a range of years.

**Dates**

Choose a date from the **Added to Bookshelf** in the last: menu selections to limit your search results by the date a book or chapter was added to Bookshelf, or choose the **Custom range** menu option to enter a specific date or date range.

Resource Type

The resource type restricts your search based on the type of material the resource represents, such as: Book, Database, Documentation (i.e., NCBI Help Manual documentation), or Report.

Search Fields

Use the **Search fields** filter to search for terms in a specific search field.

|------------------------|--------------------|------------------|-------------|-------------|--------------------------|-----------------------------|-------------------------|----------------------|----------|------------|-------------|---------------------|--------------------|------------------|----------------|-----------|------------|-------------|---------------------|------------------|----------------|------------------|----------|-----------|

Advanced Search

**Searching by a Specific Field**

Use the **Advanced Search Builder** to search for terms in a specific search field.
• To search by author, select Author from the All Fields menu, and then enter an author’s name. The name will automatically display in the search box.
• To search for other fields in a book or resource’s citation (e.g. Editor, Publisher, Title, Publication Year) or other specific bibliographic information, use the pull-down menus to select a field before entering a term in the search builder box.
• Terms entered in the builder are automatically added to the search box.
• Note that the default Boolean operator is AND; if desired, choose OR or NOT from the pull-down menu.
• You may also search a specific field by adding the appropriate tag to a search term (See Search Field Descriptions and Tags for common search fields.)
  o The search tag must be enclosed in square brackets.
  o Case and spacing do not matter.

**Search Field Descriptions and Tags**

<table>
<thead>
<tr>
<th>Accession ID [AID]</th>
<th>Editor [ED]</th>
<th>Publication Year [PDAT]</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Fields [ALL]</td>
<td>Filter [SB]</td>
<td>Publisher [PUBN]</td>
</tr>
<tr>
<td>Attribute [ATTR]</td>
<td>Full Author Name [FA]</td>
<td>RefPMID [RMID]</td>
</tr>
<tr>
<td>Author [AU]</td>
<td>Full Editor Name [FE]</td>
<td>Release Date [RD]</td>
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<tr>
<td>Book Accession ID [BACI]</td>
<td>Gene Name</td>
<td>Rid [RID]</td>
</tr>
<tr>
<td>Chapter Accession ID [CHID]</td>
<td>Grant Number [GR]</td>
<td>Subject [SUB]</td>
</tr>
<tr>
<td>Corporate Author [CA]</td>
<td>PMID [PMID]</td>
<td>Type [TYPE]</td>
</tr>
<tr>
<td>Disease</td>
<td>Protein Name</td>
<td>Stopwords</td>
</tr>
</tbody>
</table>

**Accession ID [AID]**

Includes every NBK accession number from the Books database. These are identified as the “Bookshelf ID” at the bottom of each document’s webpage in Bookshelf, e.g., NBK285222

**All Fields [ALL]**

Includes all searchable Bookshelf fields. Bookshelf ignores stopwords in search queries.

**Attribute [ATTR]**

Refers to specific search attributes, for example, “scoll hstatcollect”[Attribute] will retrieve all books in the HSTAT collection

**Author [AU]**

To search for an author, enter the last name followed by a space and up to the first two initials followed by a space and, if applicable, a suffix abbreviation (e.g., crowley wf
jr[Author]). Do not include a period or comma after the last name. Initials and suffixes may be omitted when searching.

**Book [BOOK]**

The ID of the book that contains one or more documents. The book id field is pre-selected when searching within a book (e.g., dementia AND erta193[book]). Book ids may, but do not always, correspond to publisher series information, for instance, AHRQ Evidence Reports are prefaced by erta followed by the series number.

**Book Accession ID [BACI]**

Includes accession numbers from the Books database provided to each book in Bookshelf. Each accession number has a prefix, “NBK”. These are identified as the “Bookshelf ID” at the top of each book or resource’s Table of Contents page. This field will return all search results within the book with the specific Book Accession ID.

**Chapter Accession ID [CHID]**

Includes NBK accession numbers from the Books database provided to each chapter in Bookshelf. These are identified as the “Bookshelf ID” on top of each particular page of content, such as a Chapter page. This field will return all search results within the chapter with the specific Chapter Accession ID.

**Concept Phrases [KYWD]**

Refers to a generated keyword or phrase. Phrases can be enclosed in quotes.

**Corporate Author [CA]**

Corporate author identifies the corporate or collective authorship of an article. Bookshelf ignores stopwords in Corporate Author search queries.

**Disease, Gene Name, and Protein Name**

These facets are indexed fields specific to the GeneReviews resource. For more information, see *GeneReviews Advanced Search Help*.

**Editor [ED]**

To search for an editor, enter the last name followed by a space and up to the first two initials followed by a space and, if applicable, a suffix abbreviation. Do not include a period or comma after the last name. Initials and suffixes may be omitted when searching.

**Filter [SB]**

Technical tags used by Bookshelf; filters include those to limit records for books (e.g., “book alz”[Filter]), series (e.g., “derpcollect”[Filter]) and subjects (e.g., “biochemistry” [Filter]). Book and series filters are preselected when you search within a book or within a series.
**Full Author Name [FA]**
The full author names from all books and chapters for which full names are provided to Bookshelf from the publisher. See Author [Author] for more information on author searching.

**Full Editor Name [FE]**
The full editor names from all books and chapters for which full names are provided to Bookshelf from the publisher. See Editor [Editor] for more information on editor searching.

**Full Text [FText]**
Includes all words and numbers in the full text; excludes text of bibliographies.

**Grant Number [GR]**
The grant number search field includes research grant numbers or contract numbers that designate financial support by US agencies or international funding sources. The four parts of the grant data are:

1. number, e.g., HHSN276201400262U
2. US Public Health Service (PHS) 2-character grant abbreviation, e.g., LM
3. institute acronym, e.g., NLM NIH HHS
4. country, e.g., United States

Each individual grant part can be searched using [gr], e.g., NIH[gr]
See Grant codes and agency abbreviations used in grant numbers for the 2-character abbreviations, PHS agency acronyms, and other US and non-US funding organization.

**ISBN [ISBN]**
To search by an ISBN number, enter a standardized international ISBN-10 or ISBN-13 code (e.g., 0-7167-3118-5 or 978-0-309-15706-3)

**PMID [PMID]**
To search by PubMed ID, enter the ID number (e.g., 21089236)

**Publication Year [PDAT]**
The year that the book or resource was published (e.g., 2010)

**Publisher [PUBN]**
To search for a publisher, enter the publisher's name followed by the [publisher] tag. Bookshelf ignores stopwords in Publisher search queries.

**RefPMID [RMID]**
Release Date [RD]
The date that the book or resource was added to or updated on the Bookshelf. Dates or date ranges must be searched using the format YYYY/MM/DD, e.g., “2010/12/10[ReleaseDate]”. The month and day are optional (e.g., “2010[ReleaseDate]” or “2010/12[ReleaseDate]”). To enter a date range, insert a colon: between each date (e.g., “2010/06/30:2010/12/30/[ReleaseDate]”.

Resource Type [RT]
The type of material the resource represents, includes: Book, Database, Documentation (i.e., NCBI Help Manual documentation), or Report.

Rid [RID]
The NCBI-internal identifier of any searchable part of a book in Bookshelf.

Subject [SUB]
Bookshelf’s controlled vocabulary of biomedical terms used to describe the subject of each book or resource in Bookshelf. These Bookshelf Subjects listed in the Index are based on, although not limited to, Medical Subject Headings.

Title [TITL]
Words and numbers included in the title of a Bookshelf unit of content, i.e., book, chapter, section.

Type [TYPE]
The types and levels of content in Bookshelf that are indexed, including the entire book, parts, chapters, sections, appendices, glossaries, reference lists, boxed text, tables and figures.

Stopwords
Bookshelf searches use the same stopwords that are used in PubMed. See PubMed Stopwords for more information.

Browsing the Index of Terms
The Search Builder Index provides an alphabetical display of all terms in each Bookshelf search field. You can browse by all fields or within a specific field.

1. Click Advanced and use the Builder to select a search field from the All Fields menu.
2. Enter a term in the search box, and then click Show Index list.
3. The index displays an alphabetical list of search terms. The number of results for each term appears in parentheses. Click Previous or Next to move within the index.
4. Scroll until you find a term and then highlight it to add it to the search box. To select multiple terms (and OR them together), click on each term while holding down the Ctrl key (PC) or Command key (Mac).

Bookshelf processes all Boolean operators left to right. To change this order, enclose search terms to be processed in parentheses, e.g., hypertension AND (ACEIs OR ARBs). Bookshelf will automatically OR (and add parentheses) for multiple terms selected from the Index.

**Previewing the Number of Search Results**

Use the **Add to history** link in the Advanced Search Builder to preview the number of items available for a query before displaying the search results (see Advanced Search Tutorial video):

1. Click **Advanced**.
2. Use the Builder to add search terms to the search box.
3. Click **Add to history** to display the number of results in History.
4. To display the results, click the **Items found** link in History.

**Combining Searches Using History**

Previous searches can be combined or used in subsequent searches using the search number from the Advanced search **History** (see Advanced Search Tutorial video).

1. Click **Advanced**.
2. In **History**, click **Add** to move the search to the Builder.
3. Alternatively, enter a number sign followed by the search number (e.g., #1) in the search box, or click the search number to display additional options to add the search to the Builder, including Boolean operators OR or NOT. Other menu options include:
   - Delete from history
   - Show search results
   - Show search details
   - Save in **My NCBI**
4. Add additional search terms in the builder.
5. Click **Search**

The **Clear history** button will remove all of your queries. History can hold a maximum of 100 searches in one session, but the queries will be lost after eight hours of inactivity. Bookshelf uses cookies to keep a history of your searches. For you to use this feature, your Web browser must be set to accept cookies. A separate History will be kept for each NCBI database, although the search statement numbers will be assigned sequentially for all databases.
Displaying Your Search Results

When searching across Bookshelf, your results will automatically display as a list of books, Sorted by Relevance (see Figure 1) according to the number of results found. You can manually change the display of your search results by selecting from the various options within the Display Settings menu, including Sort by Title and Pub Date. Images containing your search term will display only in the Images search in Bookshelf panel (see Figure 2).

Search results from within books will be grouped automatically by the book unit having an Accession ID (example, chapter, section, appendix, etc) and Sorted by Relevance. The total number of results retrieved within each chapter or section will be displayed as a collapsible link below it (see Figure 3).
Your search terms will be bolded or highlighted in your results if this is selected in your My NCBI preferences. Your particular search terms will remain bolded or highlighted until you've conducted a new search query, you change your My NCBI preferences to not highlight search terms, or the next day.

**Links to Related Data in Other NCBI Resources**

Bookshelf automatically generates links from your search results to related results in other NCBI databases. These databases include Gene, OMIM, PubChem Substance, PubMed Central (PMC), and PubMed. To access the links to other NCBI Databases:

Click the check box for one or more of the items retrieved in the list of search results.

Select from one of the five database links in the Database options pull-down menu in the Find related data panel to the right of the search results. You will be taken to the relevant results within the selected database.
Figure 3. Search within a book in Bookshelf. The Display Settings options menu is set by default as Sorted by Relevance (A). The citation of the book you are within is displayed at the top of the results page (B). To modify your search within the book displayed, enter a new term in the search box under the book's citation and press the Search this book button (C). Search results from a book are grouped by the book units having accession IDs (for example, a chapter, section or appendix) with the most relevant book unit ranked at the top (D). Each summary includes the chapter's hyperlinked title, and if available, the authors of the chapter, publication date when the chapter was created, and the date the chapter was updated. The number of results within a chapter containing your search term is displayed as a Show details link that opens to provide links to the particular resulting sections, tables and boxes.
Displaying the Search Details

The Search Details panel to the right of your search results shows the computer’s translation of your query using search terms, field limits, and search rules. To access the full Search Details information, click on the “See more…” link below the panel. The full information is presented in four parts:

**Query Translation** displays the search string used by the computer to query the database. Use this box to edit the query.

**Search** will execute the search in the Query Translation box.

**URL** will display the current search as a URL to bookmark for future use.

**Result** provides the total number of results retrieved.

**Database** shows the NCBI database you are using (Books).

**User Query** shows the search strategy entered as you entered it in the search box and any syntax errors generated by the query.

If your results are not what you expected, it is a good idea to check the Search Details page for the computer’s translation of your search to determine how to modify the query.

Creating Alerts

Users can create an alert to keep up to date on new search results for queries. This function requires a MY NCBI account. To use the Create alert function:

1. On the search results page, select Create alert from the menu beneath the search bar.
2. Select a name for your saved search (the tool automatically defaults to the search terms entered).
3. Confirm or change search terms.
4. Choose options to receive alerts, including:
   - Email update options
   - Email address
   - Schedule frequency and day to receive alerts
   - Report format
   - Number of items
   - Additional text
Saving and E-mailing Results and Searches

Using the Clipboard

The Clipboard provides a place to temporarily collect selected citations from your search queries. The Clipboard will be lost after 8 hours of inactivity in Bookshelf or on any of the other NCBI databases.

You may also save your search results indefinitely using My NCBI.

To add citations to the Clipboard:

In your search results, use the check boxes to select search results. To save all of your results do not click any check boxes.

Use Send to, and select Clipboard.

To view your selections, click the Clipboard panel items link.

To delete citations from the Clipboard:

Use the Remove from clipboard link to delete individual items, or use the check boxes to select items to delete, and then click the Remove selected items link.

To delete all citations from the Clipboard, do not select any items, click the Remove all link.

Saving as a Text File

1. In your search results, use the check boxes to select citations. You may move to other pages to continue your selections. If you do not make any selections, Bookshelf will save the entire retrieval.
2. From Send to, select File.
3. Your Web browser will prompt you to save the Bookshelf search results in a file on your computer.

E-mailing Results

1. In your search results, use the check boxes to select citations. To e-mail all citations displayed on the page, do not make any selections.
2. From Send to, select E-mail.
4. Enter an e-mail address. You may also enter additional text that will be included in the e-mail.
5. Click E-mail. The system returns you to your results page and displays a confirmation e-mail sent message.

You can read more about using the Clipboard, Saving as a Text File and E-mailing Results in Saving and E-mailing Results and Searches in PubMed Help.
This panel does not display image results from queries using Limits or Advanced Search.
Frequently Asked Questions

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Adobe Reader is required to view PDF files. The software is free and can be downloaded from the Adobe Web site: [http://get.adobe.com/reader](http://get.adobe.com/reader).

**How can I switch from the PubReader view back to the “classic” view?**

You can go back to classic view from the settings menu (gear icon). Bookshelf will remember your preference and the next time you access the document, you will be taken to classic view.

![Settings menu](image)

The default setting is specific to the browser you are using.

**How can I access the PDF version in PubReader view?**

Tap on the gear icon near the top right corner of the PubReader page, then tap the “PDF” option on the resulting menu. If there are two “PDF” options, tapping the larger-sized PDF option will download the “whole book” PDF, and tapping the smaller one will download the “chapter-only” PDF.

![Settings menu with PDF options](image)

If no PDF option appears under the gear menu, then there is no PDF available for the document you are reading.

Additional help on PubReader topics is found by tapping the question mark icon near the top right corner of PubReader pages, and at [https://www.ncbi.nlm.nih.gov/pmc/about/pubreader/](https://www.ncbi.nlm.nih.gov/pmc/about/pubreader/).
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Applications and Submissions

How can I participate in Bookshelf?

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**Will a new edition of the same book in Bookshelf automatically get included?**

No, each new edition is considered a new application and must go through the review process (see Information for Authors and Publishers).

**Can publishers continue to provide the content of their books or resources on other sites in addition to Bookshelf?**

A publisher participating in Bookshelf is free to distribute its content in any other manner, including through other websites. In fact, Bookshelf will provide the publisher a copy of its content in Bookshelf, at any time, to be used however the publisher chooses.

**What is the Bookshelf submission format?**

Bookshelf requires that data be submitted in XML (Extensible Markup Language), using a mutually agreed upon DTD (Document Type Definition). The original high-resolution, digital image files must also be provided for all figures. A PDF of the book or book chapters, if available, should be submitted in addition to the XML version. Supplementary material, in the form of video, sound, datasets, or software files that accompany the book or resource should also be submitted. See the File Specifications for details.

**Are publishers required to make the full text freely available or can they submit abstracts only?**

Bookshelf does not accept abstracts only. Participants in the Bookshelf project must agree to make the full text of the content freely available to NLM users.

**Cataloging**

**Are MARC records available for books on Bookshelf?**

Yes, the National Library of Medicine (NLM) Cataloging Section creates MARC 21 records for Bookshelf titles, which are available in batches by release date at: ftp://ftp.ncbi.nlm.nih.gov/pub/bookshelf/
Citations

What citation format is used for Bookshelf citations?

Bookshelf citations follow the NLM citation format. See Citing Medicine, 2nd Edition.

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How is Bookshelf related to PubMed?

PubMed is a database of citations and abstracts for journal articles, books, and documents. Bookshelf, the books division of the NLM Literature Archive (LitArch), is an online collection of full-text books, reports, databases and other documents. Some Bookshelf contents have a corresponding entry in PubMed (See PubMed Help for details on how to find Bookshelf records in PubMed searches). PubMed will not have citations for certain types of Bookshelf material, such as Help Documentation, that are considered out of scope for PubMed.

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Tutorial 1: Browsing

A student is just beginning his course in genetics, and his teacher has recommended Bookshelf as a good source of information. The student explores which books are relevant to his studies.

This tutorial will show you how to browse through our titles on genetics. Click on Browse Titles. In the filter box, enter the term “genetics”, select Title and click on Go. Scroll to see that there are 8 books with the term genetics in their titles.

Alternatively, we can browse by book subject, rather than book title. To do this, let’s first Reset the filter to see all books. In the Subjects column, click on More, check the box for Genetics and Apply. Scroll to see the list of 42 books about genetics.

Tutorial 2: Search

A medical student is trying to understand the role of the t-cell receptor during a viral infection.
Tutorial 2. Search

Download video

This tutorial will show you how to do a simple search through Bookshelf. In the search box, enter the term you want to find out more about, in this example, “t-cell receptor”, then click on the Search button. The results show a list of books that have the term, along with several figures.

The books are displayed in order of relevance. By clicking on Display Settings, you can change how the books are sorted, and the number of results you see on one page.

Click on Top results for one of the books to find out information about the t-cell receptor.

Tutorial 3: Inside a book

A genetics counselor is seeking information on hemochromatosis. He visits GeneReviews to learn about how the disease is inherited, and the risk to family members.
Tutorial 3. Inside a book

Download video

This tutorial will show you how to read our books. Clicking on Browse Titles will show you all the books, but for this example, click on the featured title, GeneReviews.

To find hemochromatosis, click on H, and find HFE-Associated Hereditary Hemochromatosis.

Here is a summary. To skip to another part of the review, Click on Go to, and then Genetic Counseling.

To read original papers and reviews, click on a citation and then its PubMed link. You can also see related PubMed citations for this article on the right side of the page.

Tutorial 4: Using facets

A user needs to narrow results while seeking information on hemoglobin.
Tutorial 4. Using facets

This tutorial will show you the Bookshelf Facets feature to narrow search results.

In the search box, enter the term you want to find, in this example, “hemoglobin”. To use the facets, select options from the menu on the left side of the page. For example, by selecting Database under Resource types, users can narrow results to twenty-three databases.

To access additional facets, click Show additional filters at the bottom of the facets menu, select Search fields, and click Show. Users may then select from these additional facets by clicking Choose and selecting from the drop-down menu.

Tutorial 5: Advanced search

A doctor is researching breast cancer. She wants to know about the BRCA gene and the drug tamoxifen.
Tutorial 5. Advanced search

Download video

This tutorial will show you the Bookshelf Advanced search that lets you refine your search term. Click on **Advanced**, enter “tamoxifen” and click on **Add to history**. Note there are 1052 results.

Now enter “BRCA” and click on **Add to history** again. Note there are 303 results.

To combine the two searches, enter “#1 AND #2”. Clicking on **add to history**, and then click on the **58** results found.

Alternatively, you can use the search builder. Enter “tamoxifen”, make sure **AND** is selected from the drop-down list, then on the next row enter “BRCA”. Clicking on **Add to history** shows the same 58 results again.