Library Tutorial for Biological Sciences Graduates

Mak Jie Ying
Science Resource Librarian
21 Aug 2018
Outline

Using the Library

• NUS Libraries and Services for Graduates

Searching and citing

• Overview of online resources for Life Sciences
• Effective search techniques
• Demo on Scopus
• Introduction to reference management software & Mendeley

Becoming an informed researcher

• Journal Citation Reports (JCR)
• Additional Tools and Tips
• NUS Libraries’ Initiatives
Using the Library

http://libguides.nus.edu.sg/skills
The Library Portal (www.lib.nus.edu.sg)

Searching for books, articles & more!

Important Links and Information

News & Events @ NUS Libraries

Library Opening Hours & Calendars
FindMore@NUSL

Use if you wish to discover relevant information from everything found in
- NUS Libraries' catalogue
- Online full-text contents available from subscribed E-Resources and beyond

Online Guide to FindMore@NUSL
LINC

Use if you wish to search for a specific book or journal title

Physical Resources

Aquatic functional biodiversity: an ecological and evolutionary perspective


<table>
<thead>
<tr>
<th>LOCATION</th>
<th>CALL #</th>
<th>STACK#</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science Library Books</td>
<td>QH90.8 Bio 2015</td>
<td>AVAILABLE</td>
<td></td>
</tr>
</tbody>
</table>
LINC
Use if you wish to search for a specific book or journal title
LINC
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LINC

Use if you wish to search for a specific book or journal title.

Electronic Resources

Aquatic functional biodiversity: an ecological and evolutionary perspective


Online access via:

- ScienceDirect E-Books
- About this E-Resource
My Library Account (MyLINC)

For:  
- Online renewal
- Item reservation
- Closed stacks request

Login to MyLINC

Please enter the following information. To protect your privacy, do remember to logout after viewing your library record.

Matric/Staff/Membership number:

E.g. Staff:
- 012345, 12345A

Students:
- A0135790X, U081234B, HT0984604

External members & Term card holders:
- LP01234Z, T123456

Library PIN:

Forgotten your PIN?
Loan Privileges for Graduates

Loan Entitlement

- **30 books**
- **28 days**
- **3 online renewals**

How do I Borrow a Book?

# Services for Graduates

## Services for Graduate Students

<table>
<thead>
<tr>
<th>Services</th>
<th>Links</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Essential Guides</strong></td>
<td>New to NUS&lt;br&gt;Research Help&lt;br&gt;Research Tools&lt;br&gt;Subject Guides</td>
</tr>
<tr>
<td><strong>Contact Us</strong></td>
<td>Ask a Librarian&lt;br&gt;Chat&lt;br&gt;Schedule an Advisory Session with Your Resource Librarian</td>
</tr>
<tr>
<td><strong>Loan of Library Materials</strong></td>
<td>Loan of Library Materials&lt;br&gt;Interlibrary Loan&lt;br&gt;Intra library Loan</td>
</tr>
<tr>
<td><strong>Loans Services</strong></td>
<td>Print Form to Pay Fines&lt;br&gt;Renew Loans&lt;br&gt;Report a Lost Book&lt;br&gt;Reserve Items</td>
</tr>
<tr>
<td><strong>Recommendation to Purchase New Materials</strong></td>
<td>Recommend Books (Check Status)&lt;br&gt;Recommend Journals&lt;br&gt;Recommend Media Materials</td>
</tr>
<tr>
<td><strong>Document Delivery Services (DDS)</strong></td>
<td>Purchase Articles/ Book Chapters/ Conference Papers Not Found in NUS Libraries (Check Status) (For my own assignment)</td>
</tr>
<tr>
<td><strong>Other Services</strong></td>
<td>Book ArtsBuzz &amp; Central Library Lobby&lt;br&gt;Book Library Facilities&lt;br&gt;Change Mail/Email Address&lt;br&gt;Network Printing</td>
</tr>
</tbody>
</table>
Services for Graduates

**Intra-Library Loan**
Loan from other **NUS Libraries**, e.g. Central Library

**Inter-Library Loan**
Loan from other **libraries outside NUS**, e.g. an Australian University

**Document Delivery Services (DDS)**
Request **journal articles, book chapters** or **conference papers** that are not available in NUS Libraries
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- Overview of online resources for Life Sciences
- Effective search techniques
- Demo on Scopus
- Introduction to reference management software & Mendeley

Becoming an informed researcher
- Journal Citation Reports (JCR)
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Searching and citing

Overview of online resources for Life Sciences

Effective search techniques

Demo on Scopus

Introduction to reference management software & Mendeley
Biological & Life Sciences Subject Guide

- Provides a selective list of biological resources available to NUS community
- Website: [http://libguides.nus.edu.sg/biology](http://libguides.nus.edu.sg/biology)
## Subscribed Online Resources

<table>
<thead>
<tr>
<th>Type of Information</th>
<th>Online Resource</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-disciplinary Bibliographic Databases</td>
<td><a href="https://www.webofknowledge.com">Web of Science</a> / <a href="https://www.scopus.com">Scopus</a></td>
</tr>
<tr>
<td>Biomedical &amp; Life Sciences</td>
<td><a href="https://www.biosis.org">BIOSIS Previews</a></td>
</tr>
<tr>
<td>Animal Biology &amp; Taxonomic Reference</td>
<td><a href="https://zoo.biologicalabstracts.com">Zoological Record</a></td>
</tr>
<tr>
<td></td>
<td><a href="https://www.blor.org">Biodiversity Library of Southeast Asia</a></td>
</tr>
<tr>
<td></td>
<td><a href="https://www.embase.com">Embase</a></td>
</tr>
</tbody>
</table>
| Experimental Protocols and Demonstration Videos           | [Springer Nature Experiments](https://springernature.com/)
|                                                           | [JoVE](https://jove.com) (Journal of Visualized Experiments) |
| Chemical Substance Structure / Properties & Reaction Searching | [Reaxys](https://www.reaxys.com) / [SciFinder](https://www.scifinder.com) (registration) |
| Newspaper Articles / Local Content                        | [Factiva](https://www.thomsonreuters.com/products-services/factiva) / [Lexis-Nexis](https://www.lexisnexis.com) / [NewspaperSG](https://www.newspapersg.com) |
Online Database Guides

- **PubMed Tutorial**
  

- **Embase Support Center**
  

- **Web of Science Training**

  (includes BIOSIS Previews & Zoological Record)

  [http://clarivate.libguides.com/webofscienceplatform](http://clarivate.libguides.com/webofscienceplatform)

- **Scopus Support Center**
  
Recommended Online Resources

Scopus

A multi-disciplinary resource from Elsevier covering the Sciences, Arts and Humanities and Social Sciences

Image source: https://www.elsevier.com/solutions/scopus/content
Recommended Online Resources

Biodiversity Library of Southeast Asia (BLSEA)

- Digital library of biodiversity literature on Southeast Asia
- Website: http://blsea.nus.edu.sg
Effective search techniques

**Boolean operators**

**OR**

*Either* of the terms may be present. Used for broadening a search.

*e.g. roundworms OR nematodes*

**AND**

*Both* terms must be present. Used for narrowing a search.

*e.g. parasites AND intestine*
Effective search techniques

Boolean operators

**NOT**

*Eliminate* an unwanted concept or word

*e.g. parasites* **NOT** flatworms

**Group** words/phrases and *specify* the order in which Boolean operations occur when multiple operations are present

*e.g. (A OR B) AND C*

*A OR (B AND C)*
Effective search techniques

Exact Search

" "

Searches the **exact phrase** enclosed within the quotes

*e.g. “avian influenza”*
## Effective search techniques

### Wildcard Search

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Representation</th>
<th>Useful for Representing</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>any number of characters</td>
<td>various forms of a term</td>
<td><code>biol*</code> - for biology, biological, biologist, biologists</td>
</tr>
<tr>
<td>?</td>
<td>any single character</td>
<td>singular/plural forms</td>
<td><code>cat?</code> - for cat, cats</td>
</tr>
<tr>
<td>$</td>
<td>one character or no characters</td>
<td>British &amp; American spellings</td>
<td><code>behavio$r, colo$r, vapo$r</code></td>
</tr>
</tbody>
</table>
### Demo on Scopus

<table>
<thead>
<tr>
<th>Database</th>
<th>Scopus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topic</td>
<td>Application of <em>Limulus Amoebocyte Lysate</em> assay for detection of bacterial endotoxins</td>
</tr>
<tr>
<td>Search statement</td>
<td>&quot;limulus amoebocyte lysate&quot; OR LAL AND endotoxin OR lipopolysaccharide OR LPS</td>
</tr>
</tbody>
</table>
Reference Management Software

stores + organises
references from many sources

inserts these references into a Word document

automatically formats inserted references according to a predefined citation style

Click each icon to access the guides:

- EndNote
- Mendeley
- Zotero

APA 6th
Harvard
MLA
Chicago
Website: [http://libguides.nus.edu.sg/biology](http://libguides.nus.edu.sg/biology)

Mendeley Online Guide - Manage and Share your Research: Introduction

A quick guide on how to use Mendeley to keep track of your research, to quickly and easily cite while writing and how to share your research.

Mendeley Training Sessions

Learn how Mendeley can speed up your workflow, and bring important collaborative tools to the forefront of your research.

Mendeley Workshop details:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
<th>Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 August 2018</td>
<td>1pm to 3pm</td>
<td>Engineering Auditorium</td>
<td>Not Required</td>
</tr>
<tr>
<td>21 September 2018</td>
<td>11am to 1pm</td>
<td>Science Library</td>
<td>Not Required</td>
</tr>
<tr>
<td>12 October 2018</td>
<td>10am to 12pm</td>
<td>C J Koh Law Library, Angsana Room 1</td>
<td>Not Required</td>
</tr>
</tbody>
</table>

Before you arrive at our class, it's important to:

- Bring your own laptop.
- Ensure that it is already set up to connect to NUS Wi-FI and that you have **Microsoft Word** installed on your laptop.
Mendeley Workflow

1. Add references to Mendeley Library
2. Insert citations into Word document
3. Create bibliography in Word document
4. Change citation style
Mendeley Workflow

1. Add references to Mendeley Library (a)

i. Download the Mendeley Web Importer by clicking “Install Chrome browser extension”:

   1. Install the browser extension from the Chrome Web Store

   ![Install Chrome browser extension]

ii. A Mendeley icon appears beside the address bar when installation is successful:

   ![Mendeley icon]

iii. Go back to the database where the target work(s) is/are. Click the Mendeley icon:

   ![Google search results with Mendeley icon]
Mendeley Workflow

1. Add references to Mendeley Library (a)

Sign in with your Mendeley account:

In the popup box, select the works whose references are to be downloaded. Click “Save”: 

...
Mendeley Workflow

1. Add references to Mendeley Library (a)

Open Mendeley Desktop. Click “Sync” to view the downloaded references:
Mendeley Workflow

1. Add references to Mendeley Library (b)

Alternatively, drag and drop downloaded PDFs (containing DOIs) in the Mendeley desktop window.
Imported references may require your review at times. Click “Search” to verify/complete the missing details:
2 Insert citations into Word document

Open Word and select REFERENCES tab:

Type the title, author or year to search and select the work that you wish to cite:

We can insert the relevant citations into the document as we complete our reports and theses.
Mendeley Workflow

2. Insert citations into Word document

You may also search for multiple references at a time if you wish to cite multiple sources for a single point raised:

Sexual size dimorphism within species increases with body size in insects
T Tider, T Tammaru - 2005 - Orkos
Authors: T Tider, T Tammaru

We can insert the relevant citations into the document as we complete our report and thus...

NUS Libraries
Mendeley Workflow

3 Create bibliography in Word document

Place the text cursor at the end of the document. Click “Insert Bibliography” to generate the bibliography:

We can insert the relevant citations into the document as we complete our reports and thesis.

References

Mendeley Workflow

4 Change citation style

Select desired style from the dropdown box or click “More Styles...” to view the entire list of available styles:
We can insert the relevant citations into the document as we complete our reports and thesis (Guillermo-Ferreira and Del-Claro, 2012; Teder and Tammara, 2005).

**References**


Mendeley Workflow

4 Change citation style

To install the citation style for Raffles Bulletin of Zoology, enter the URL http://csl.mendeley.com/styles/476141641/rbz and click “Download”:

In the bibliography, italicise any species’ names in the title manually:

References

Mendeley Workflow

4 Change citation style

Place the text cursor at the in-text citation that needs amendments. Click “Edit Citation”:

Delete the unwanted citation(s) or edit the citation by clicking it:
Save the present document first.

By clicking “Without Mendeley Fields”, field codes are removed after the Word Document is saved as an additional plain text Document.
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• Additional Tools and Tips
• NUS Libraries’ Initiatives
Becoming an informed researcher

1. Journal Citation Reports (JCR)
2. Additional Tools and Tips
3. NUS Libraries’ Initiatives
<table>
<thead>
<tr>
<th>Rank</th>
<th>Journal Title</th>
<th>Total Cites</th>
<th>Impact Factor</th>
<th>Eigenfactor Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CA-A CANCER JOURNAL FOR CLINICIANS</td>
<td>28,839</td>
<td>244.565</td>
<td>0.06603</td>
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<tr>
<td>2</td>
<td>NEW ENGLAND JOURNAL OF MEDICINE</td>
<td>332,830</td>
<td>79.258</td>
<td>0.70200</td>
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<tr>
<td>3</td>
<td>LANCET</td>
<td>233,269</td>
<td>53.254</td>
<td>0.43574</td>
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<tr>
<td>4</td>
<td>CHEMICAL REVIEWS</td>
<td>174,920</td>
<td>52.613</td>
<td>0.26565</td>
</tr>
<tr>
<td>5</td>
<td>Nature Reviews Materials</td>
<td>3,218</td>
<td>51.941</td>
<td>0.01506</td>
</tr>
<tr>
<td>6</td>
<td>NATURE REVIEWS DRUG DISCOVERY</td>
<td>31,312</td>
<td>50.167</td>
<td>0.05441</td>
</tr>
<tr>
<td>7</td>
<td>JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION</td>
<td>148,774</td>
<td>47.661</td>
<td>0.29996</td>
</tr>
</tbody>
</table>
Journal Citation Reports (JCR)

- A comprehensive and unique resource that allows you to evaluate and compare journals
- It makes use of citation and article counts entirely from Web of Science® databases

Note:
- It is not possible to obtain a JCR impact factor of a journal that is not covered in Web of Science® databases
Journal Citation Reports (JCR)

Journal Impact Factor (JIF)

How frequently the average article in a journal has been cited in a particular year

Example 2017 Impact Factor Calculation:

How is Journal Impact Factor Calculated?

\[
JIF = \frac{\text{Citations in 2017 to items published in 2015 (3485) + 2016 (2516)}}{\text{Number of citable items in 2015 (356) + 2016 (311)}} = \frac{6001}{667}
\]

Source: http://clarivate.libguides.com/jcr
How can I use the JCR to find out what are the top-ranked journals in *Biophysics*?
Accessing Full-Text via Google Scholar

FAQ on setting up NUS Libraries access in Google Scholar

Show library access links for (choose up to five libraries):

NUS

Open WorldCat - Library Search
National University of Singapore - Find It! @NUS Libraries

Online access to library subscriptions is usually restricted to patrons of that library. You may need to login with your library password, use a campus computer, or configure your browser to use a library proxy. Please visit your library’s website or ask a local librarian for assistance.
Additional Tools and Tips

Accessing Full-Text via Google Scholar

Find it! @NUS Libraries

Find it! @NUS Libraries

Find it! @NUS Libraries

ScienceDirect

Download full text in PDF
Tips: Make it easy for others to find all your publications

1. **Use a consistent name when publishing:**
   e.g. James Tiberius *Kirk* → Stick to *Kirk, James T* or *Kirk, JT* or *Kirk, J*

2. **Maintain a CV/resume that includes a list of:**
   - All your publications
   - All institutional affiliations over the course of your career

3. **Participate in Scholarly Research Communities**
   e.g. *Researcher ID* / *ORCID*
## Additional Tools and Tips

### Tips: Research & Publication

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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Attend publishing talks/workshops</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Use citation management software</td>
<td>4</td>
</tr>
</tbody>
</table>
NUS Libraries’ Initiatives

Researcher Unbound

• **Series of workshops** aimed at helping researchers *discover and grasp essential skills* (e.g. literature searching, referencing and publishing research work)

• Click [here](#) to access the workshop schedule or access the slides for past workshops
RESEARCHER unbound SYMPOSIUM

25 & 26 September 2018
LT6, Kent Ridge Campus

Visit j.mp/RUS_2018
Collect, preserve and showcase research output of NUS community
Click [here](#) to access

**Benefits of using ScholarBank@NUS**

- Enable **compliance** with NUS and Funders’ policies
- Safe platform for **long-term storage and sharing**
- Increase research **visibility and impact**
- **Free** for NUS Researchers
- Facilitate **access** to academic and scientific output - anytime, anywhere
It’s Quiz Time!

Please access the quiz @ https://b.socrative.com/login/student
Enter the Room Name “SCLIB” to play!
Thank you!

Please access the survey @ http://bit.ly/bio_grad_21aug18

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sclib@nus.edu.sg