

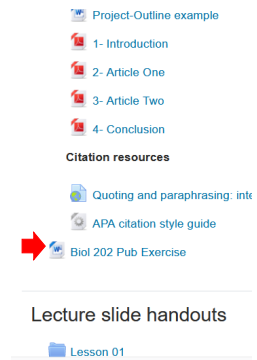
BIOL 202 Literature search workshop

Some slides updated in 2023

1

Before we start...

- Go to BIOL 202 Moodle course portal and download 'BIOL 202 Pub Exercise' file to your computer.



2

Search engines for scientific literatures

3

Recommended Search engines for scientific articles

- [Web of Science](#)
- [Google Scholar](#)
- NOT Google or other regular search engines!

4

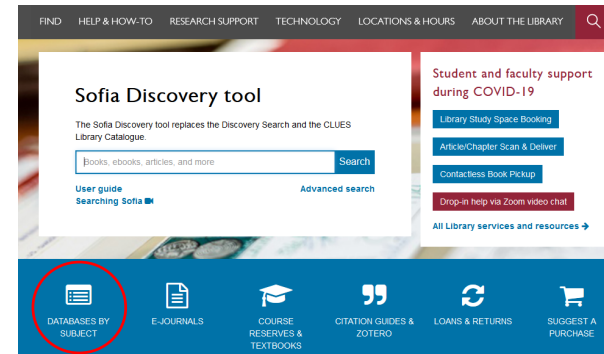
WEB OF SCIENCE



- Access through Concordia library
- List only articles published in scientific journals
- 'times-cited': indicator of article impact

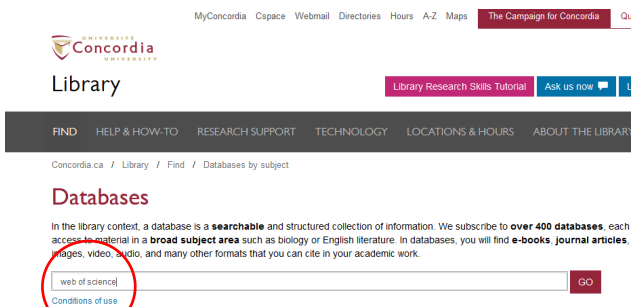
5

- Go to Concordia library website
- Click 'Databases by subject'



6

- Type 'Web of Science' and click GO



7

- Click Web of Science.
- If you are off campus, you'll be asked to log in using your netname and password.



8

The screenshot shown in the video (2021 view)

9

 UPDATED screenshot

10

Try these key words

- probiotics randomized double-blind diarrhea
- probiotics double-blind diarrhea
- probiotics double-blind AND diarrhea
- probiotics double-blind NOT diarrhea
- probiotics double-blind OR diarrhea

11

Important!
Sort the search result by 'times cited'

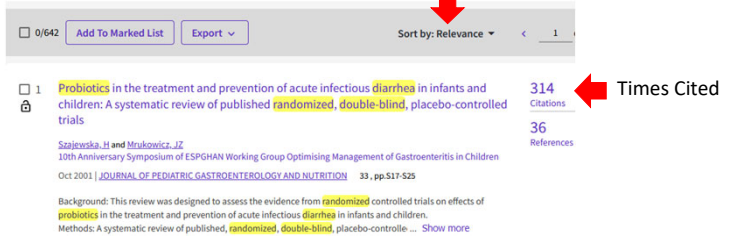
- The articles with the highest impact factor appear first

12

★ UPDATED screenshot

Important!
Sort the search result by 'Citations: highest first'

Change here



0/642 Add To Marked List Export ▾ Sort by: Relevance ▾ < 1 >

1 **Probiotics** in the treatment and prevention of acute infectious diarrhea in infants and children: A systematic review of published randomized, double-blind, placebo-controlled trials **314** Citations **← Times Cited**

Szajewska, H and Mrukowicz, JZ
10th Anniversary Symposium of ESPGHAN Working Group Optimising Management of Gastroenteritis in Children
Oct 2001 | JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION 33 , pp.517-525


Background: This review was designed to assess the evidence from randomized controlled trials on effects of probiotics in the treatment and prevention of acute infectious diarrhea in infants and children.
Methods: A systematic review of published, randomized, double-blind, placebo-controlled ... Show more

13

★ UPDATED screenshot

Important!
Sort the search result by 'Citations: highest first'

Change here



0/642 Add To Marked List Export ▾ Sort by: Citations: highest first ▾ < 1 of 13 >

1 **Probiotics** in the management of atopic eczema **657** Citations **← Times Cited**

Isolauri, E, Arvola, J, (-); Salminen, S
Nov 2000 | CLINICAL AND EXPERIMENTAL ALLERGY 30 (11) , pp.1604-1610

Background Over the last two decades the incidence of allergic diseases has increased in industrialized countries, and consequently new approaches have to be explored.
Objective The potential of probiotics to control allergic inflammation at an early age was ... Show more

14

Times cited: Impact Factor

- Measure of how specific literature influenced the academic communities.
- Time dependent: newer articles are cited fewer times.
 - Look for articles cited more than 10 time per year.
- For newer articles, check for the Impact Factor of the journals.
 - Impact factors of good journals are more than 3.

15

GOOGLE SCHOLAR
<https://scholar.google.ca/>



- Open access
 - Easy to use
 - Can be customized
 - Most cited articles returned near the top of the search.
 - But it also use other metrics such as site accesses.
-
- Use much larger data sources.
 - Not all articles have been peer-reviewed.

16

Link Google Scholar with Concordia Library

BIOL 202 Moodle

LIBRARY RESOURCES

Your Librarian Recommends

- APA Style Citation Guide
- Web of Science
- How to set up Google Scholar to find resources available at Concordia
- E-journals list
- CSE Citation Style (from Penn State)
- Article Finder

Ask Your Librarian

katharine.hall@concordia.ca

- Follow the direction described under Library resources in BIOL 202 Moodle course portal.
- Google Scholar search will also check to see if you can obtain full-text articles via Concordia Library subscription.
- After linking, the 'Find it @ Concordia' link should appear next to your search results.

17

Full-text article download

18

Purchase * Save for later

Online

Article Purchase
24 hours access for USD 54.00

Issue Purchase
30 days access for USD 134.00

Don Pay!

19

- Click on the article title or the PDF link associated with the search result. This method work with open access articles.

Role of **probiotic** in preventing acute **diarrhoea** in children: a community-based, **randomized, double-blind** placebo-controlled field trial in an urban slum
D Sur, S Manna, SK Niyogi, T Ramanurthy ... - Epidemiology & ... , 2011 - cambridge.org
Acute **diarrhoea** remains a major public health challenge in developing countries. We examined the role of a **probiotic** in the prevention of acute **diarrhoea** to discover if there was an effect directed towards a specific aetiology. A **double-blind, randomized, controlled** field ...

Click the title

Click PDF link

[PDF] cambridge.org
Full View

- Use 'Find it @ Concordia' link, if Concordia is subscribed to specific journal.

Saccharomyces boulardii in the prevention of antibiotic-associated **diarrhoea** in children: a **randomized double-blind** placebo-controlled trial
M Kotowska, P Albrecht ... - Alimentary pharmacology ... , 2005 - Wiley Online Library
... The rationale for the use of **probiotics** in AAD is based on the ... nor blinded. Furthermore, conflicting data about the effects of another **probiotic**, Lactobacillus rhamnosus GG ... This was a

[HTML] wiley.com
Find it @ Concordia

Find it @ Concordia

2. **Meta-analysis of probiotics for the prevention of antibiotic associated diarrhoea and the treatment of Clostridium difficile disease**
By: McFarland, LV
AMERICAN JOURNAL OF GASTROENTEROLOGY Volume: 101 Issue: 4 Pages: 812-822 Published: APR 2006

Find it @ Concordia Full Text from Publisher View Abstract

Find it @ Concordia

20

3. Use Concordia Library E-Journals

- 'Find it @ Concordia' link doesn't always work.
- Then, you should access the article using Library E-journal service

BIOL 202 Moodle

LIBRARY RESOURCES

Your Librarian Recommends

- APA Style Citation Guide
- Web of Science
- How to set up Google Scholar to find resources available at Concordia
- E-journals list**
- CSE Citation Style (from Penn State)
- Article Finder

Ask Your Librarian

katharine.hall@concordia.ca

Type in Journal title (not article title).
Find the journal you are looking for.
Open the journal link.
Search the article using Vol # & page #

E-journals
Search the Library Catalogue for journals in the
Use the Article Finder to find the full-text link to the article.

Online Journals

Search by Title or Identifier (ISSN/ISBN):

Title begins with

Search by DOI or PubMed ID (PMID) Number:

21

Zotero

Library Library Research Skills Tutorial Ask a Librarian Log In

CONCORDIA CA / Library / Help & how-to / Citing / Zotero

Zotero

On this page Login to Zotero

What is Zotero?

Zotero Help

Citing Engineering Village

Word Processor Integration

Installing Zotero on Office 365 Word

Transferring Citations from Refworks to Zotero

What is Zotero?

New to Zotero? Click on "Register for a free account" from Zotero's main login page.

Zotero is a desktop application that allows you to:

- Manage and organize the bibliographic references you find in library catalogues, databases, and on the web
- Preserve a bibliography or reference list automatically
- Insert and automatically format in-text citations and a bibliography into a paper using Microsoft Word, LibreOffice, Google Docs and other word processors and writing systems

22

Structure of scientific articles

Structure of peer-reviewed scientific research articles

- Abstract
- Introduction
- Materials and Methods
- Results
- Discussion
- References

23

24

ABSTRACT

- Summary of the article, shown immediately after the title.
- Does not contain all the information but is a good place to start reading in order to decide if the article is worth reading.
- Does not replace reading the complete article.

INTRODUCTION

- Background information of the field
- The research question addressed by the paper

MATERIALS & METHODS

- Describes methodology/protocol of experiments
- Some articles list this portion after results and discussion.
- Some articles list this portion as supplementary materials.

25

26

RESULTS

- Description of data they obtained from their experiments
- Data are shown in tables or graphs
- The first figure may show a flow chart showing the experimental design rather than the result of experiments.
- The first table may show a baseline data comparing the status of subject BEFORE any treatment.
 - There should be little differences between treatment vs. control at the baseline.
- Important finding will be shown after the baseline data.

DISCUSSION

- Interpretation and significance of the results in a larger context
- The authors address the scientific question they asked in the introduction.
- The authors compare the research findings with other scientific investigations done up to that point to support their interpretations.
- The authors address any weakness of their study.

27

28

References

- List of information sources.
- Most references in scientific articles are from peer-reviewed articles.
- Readers should be able to obtain the source materials based on the information in the references section.