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Library Access for Success: Search Strategies for Successful Literature Reviews

Webinar 3 of 5 October 17, 2018

Presented by: Feed the Future Innovation Lab for Livestock Systems



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Webinar #3

Searching Strategies, AGORA's Summon Search Tool, Internet search options





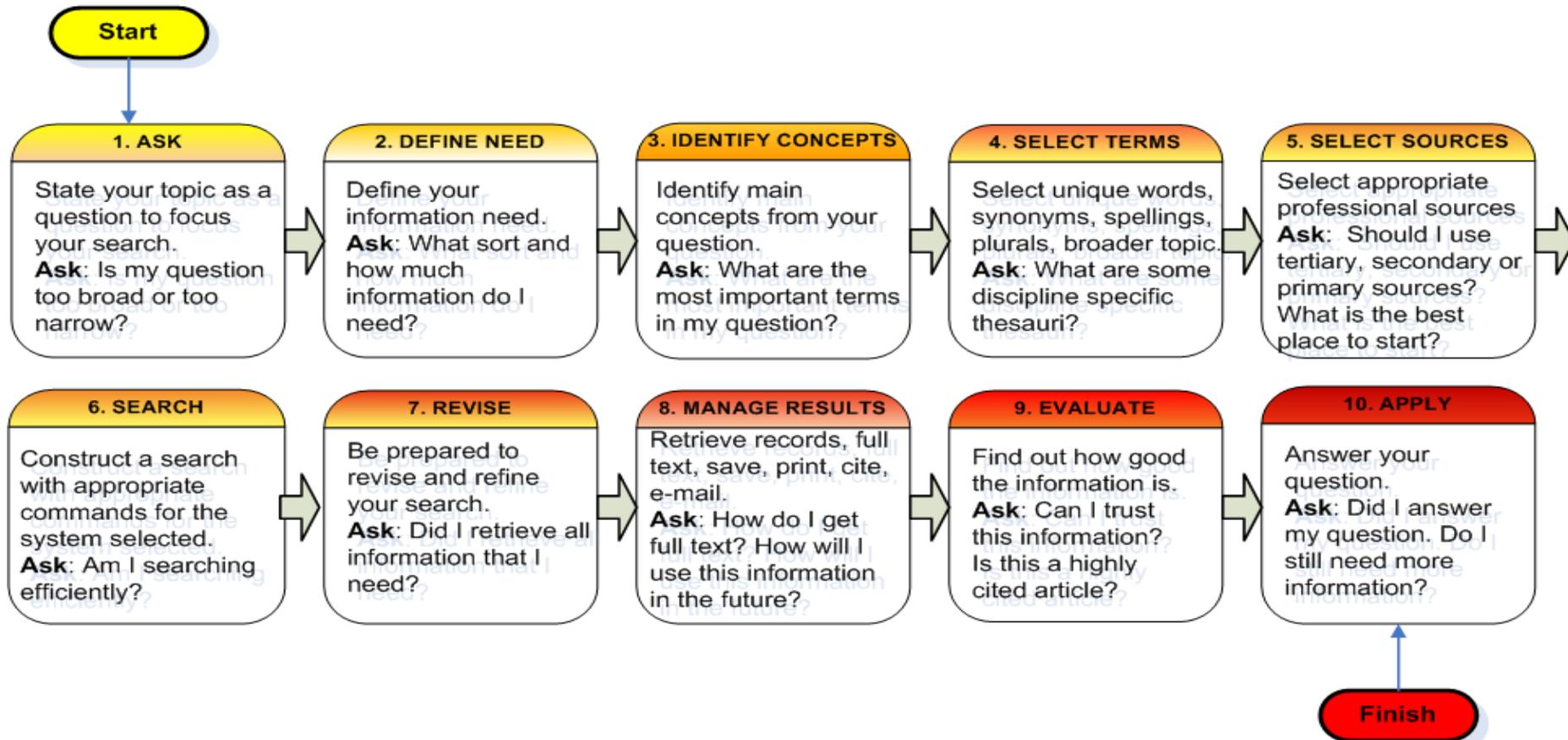
Table of Contents

- Overview of searching strategies
- Search AGORA material using the 'country specific' Summon search tool
- Useful/free Internet search tools to identify research and grey literature resources
 - search engines
 - databases
 - repositories





Developing a Search Strategy: Process Overview



Remember: Your question drives the search strategy. There is no one best way to search. Avoid one stop searching to prevent bias.





Steps 1-4: Example – water management issues AND rice production

1. Ask: What water management issues are associated with rice production?
2. Need: scholarly primary research
3. Main Concepts: water, management, rice, production
4. Select terms:
 - a) Broader terms: 'cereal', 'cultivation', 'farming',
 - b) Synonyms: H2O, farming/cultivation, usage/ issues/complications
 - c) Alternative spellings: none
 - d) Plurals: cereal(s)
 - e) Capitalization: be aware of relevancy ranking

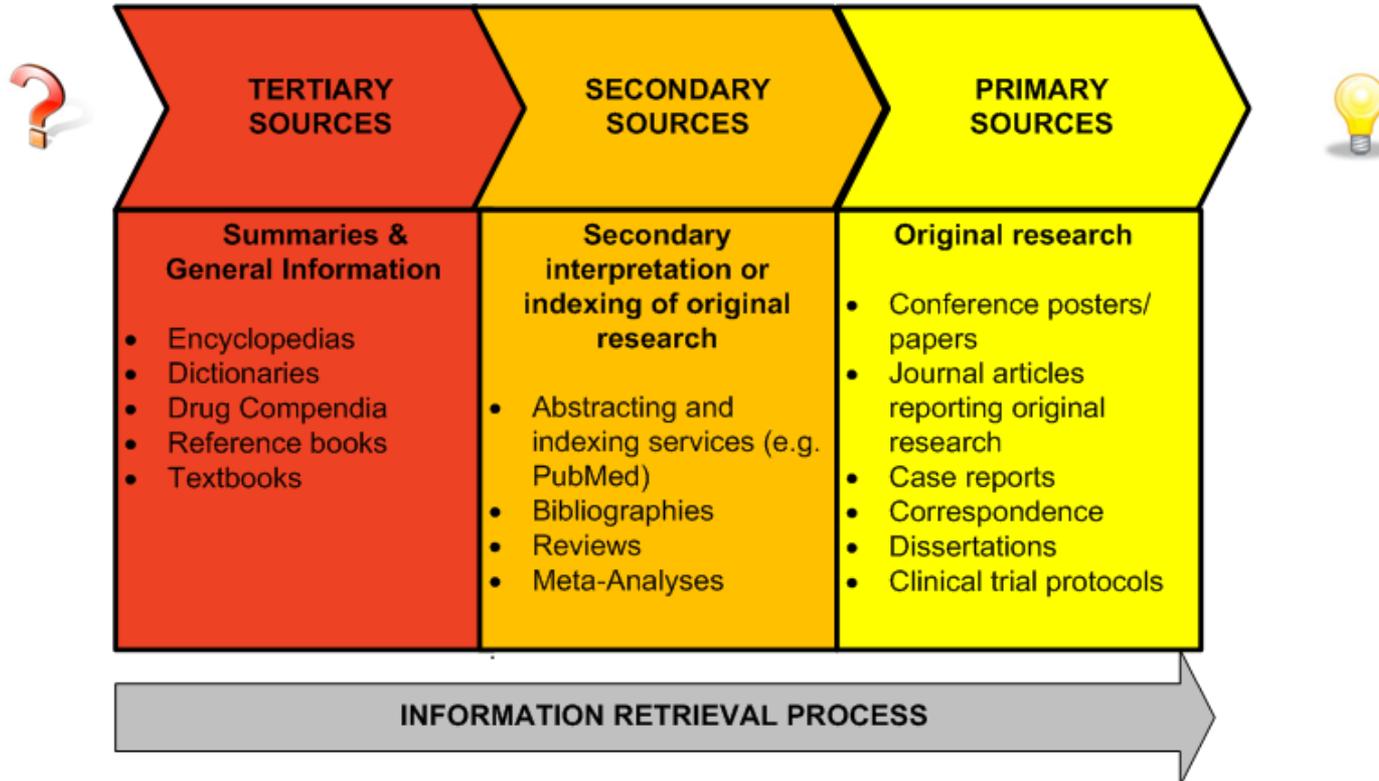




Step 5: Select a Source

Types of Information Sources and Information Retrieval Process

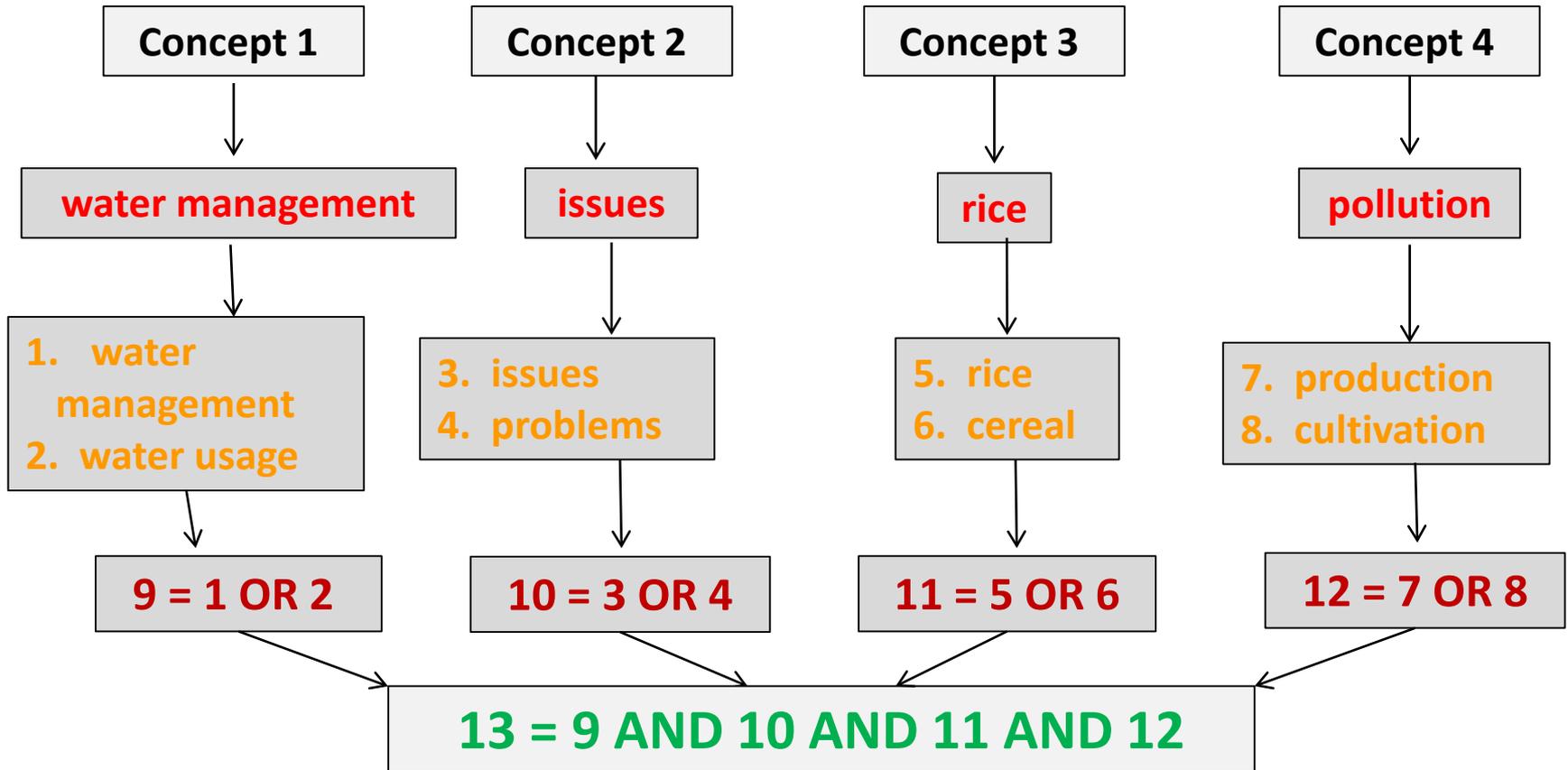
Sources are considered primary, secondary, or tertiary based on the originality of their information and its proximity to the original source. When you are looking for answers you may need to consult several types. No single source is comprehensive





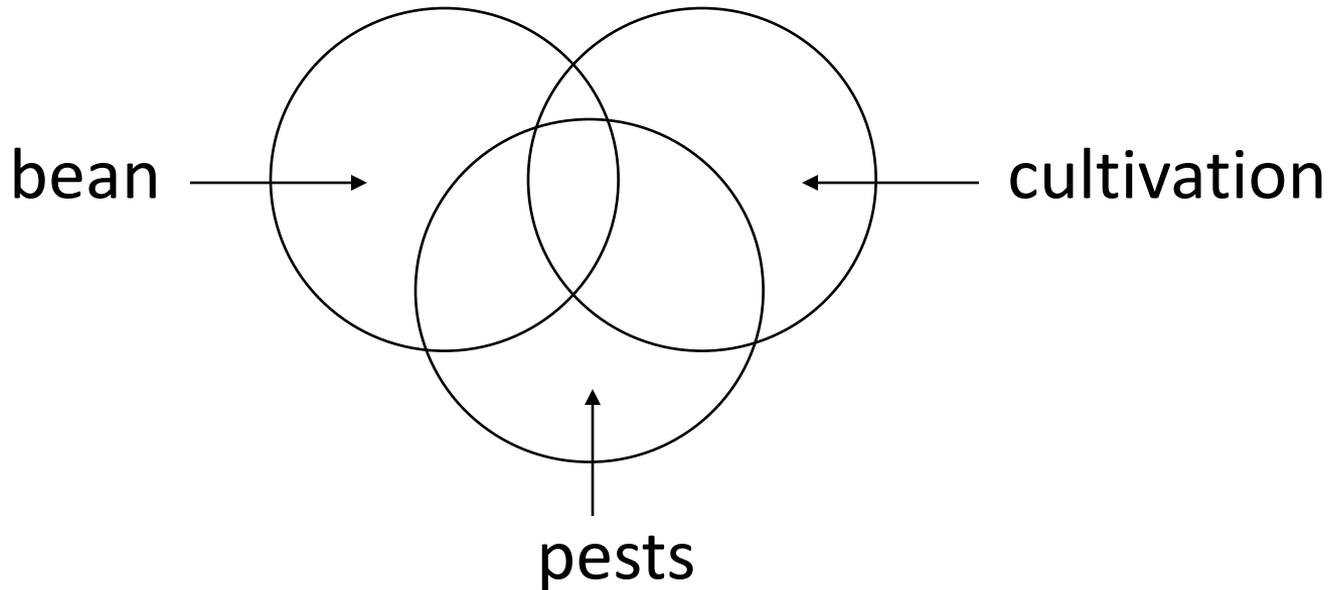
Step 6: Search - Construct a search using the appropriate commands and best practices

Question: What water management issues are associated with rice production?





AND Operator (to combine three concepts)

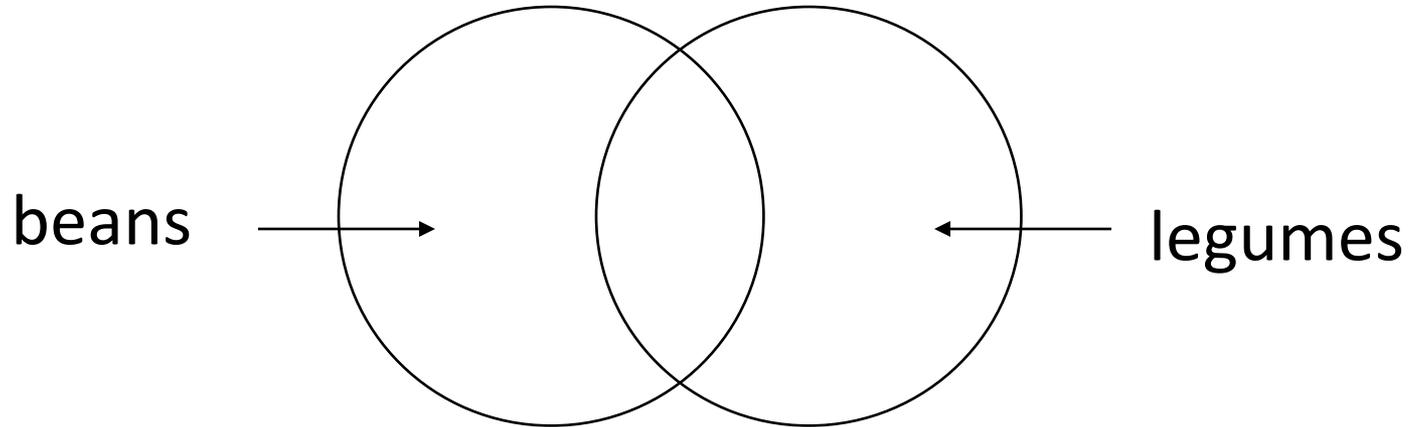


the **AND** operator is used to combine three concepts
e.g. bean AND cultivation AND pests - in the
combined area of the three circles





OR Operator (info containing one or other term)

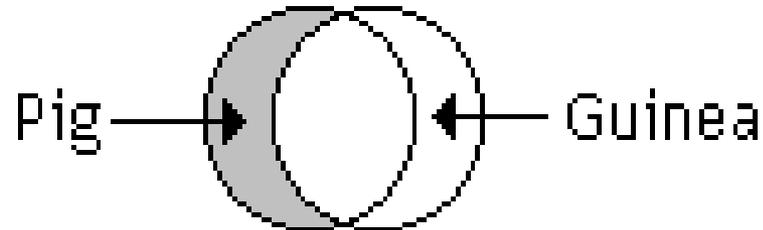


the **OR** is a means of combining synonyms e.g. beans OR legumes - in each circle's area with the overlap in the middle having both search terms





NOT Operator (in one term or the other)



pig **NOT** guinea

pig **NOT** guinea – in the shaded area; eliminates items in 2nd term (guinea) or both terms

Note: **NOT** does not work in Scholar and possible would eliminate some useful references; use judiciously





Other search engine functions

Phrase or proximity searching: “...” or (...)

allows you to search for an exact phrase, e.g. pests and (bean cultivation)

Truncation/wildcards: *

allow you to search alternative spellings and plurals

river* for river OR rivers

pesticide* for pesticide OR pesticides

program* for programme or program

Alternate spellings: ?

can be used to substitute for characters anywhere in a word

wom?n for woman or women





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www.fao.org/agora/en



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What Is Summon?

- Summon is a Google-like search engine that provides fast, relevancy-ranked results:
- Enter the search terms into a single search box or select Advanced Search options from the results page
- Refine (limit) results by criteria such as date, subject, academic journals and other options
- View results, and link directly to full text or more details
- Contains links to AGORA resources in e-journals and e-books. All R4L programs have this tool.





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AGORA - Enabling the developing world to access agriculture research

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food security and drought

Search

Advanced search Country specific search

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Books collection

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From the Content page, open the Search inside AGORA full-text Using Summon. Note the option for Country specific search results. Search food security and drought.



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The following countries, areas and territories have search profiles on Research4Life, keeping in mind that some articles may not be available in your country, area or territory. Additional countries and territories will be added to the functionality early in 2018.

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- Democratic Republic of the Congo
- Djibouti
- Equatorial Guinea
- Liberia
- Madagascar
- Malawi
- Maldives
- Mali
- Mozambique
- Myanmar
- Nepal
- Nicaragua
- Niger
- Nigeria
- Rwanda
- Sao Tome and Principe
- Senegal
- Sierra Leone
- Somalia
- South Sudan
- Sri Lanka
- Sudan

A list of **Summon (country) search sites** is displayed. Go to a **specific country search profile** on the list and click on the link.

You will have access to e-journals and ebooks that, via AGORA, the publishers have granted access to in the specific country. For this presentation, **Cambodia** (a Feed the Future participant) will be opened.



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- Equatorial Guinea
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- Ethiopia
- Fiji
- Gambia
- Ghana
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- Guinea-Bissau
- Haiti
- Honduras
- Iraq
- Kenya
- Kiribati
- Kyrgyzstan
- Lao People's Democratic Republic

- Sri Lanka
- Sudan

If your country is not listed in the **Summon search sites**, it does not have a profile. Go to **Summon General Use** at the bottom of the list and click on this. This **General Use** category is for countries where the publishers have granted access to all or almost all resources.

- Uganda
- United Republic of Tanzania
- Vanuatu
- Viet Nam
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- Zimbabwe

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access full-text and more content.

Enter **high protein forage and dairy production and developing countries** in the Search box and click on **Search**. Note the icon to the **Advanced Search** option.



high protein forage and dairy production and developing Advanced ▾

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high protein forage and dairy production and developing countries

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DISCIPLINE

agriculture (9,590)
veterinary medicine (3,324)
engineering (2,372)
zoology (1,585)
biology (1,120)

1



Review: Optimizing ruminant conversion of feed protein to human food protein

by Broderick, G A

Animal : an international journal of animal bioscience, 08/2018, Volume 12, Issue 8

.... It is anticipated that there will be increasing demand for ruminant proteins in the future. Increasing productivity per animal dilutes out the nutritional and environmental costs of maintenance and rearing dairy animals up to production...

Journal Article: Full Text Online

Preview

2



3



Using the general search tool on the Hinari content page, the search returned 13,512 results. The availability of full-text articles and books is noted by a link. In the left column, there are numerous ways to Refine your search including Content Type and Subject Terms options. Content Type includes all material available from HINARI - Journal Articles, eBook, Book Reviews, Report...



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zoology (1,585)

biology (1,120)

Note: Results are significantly smaller if “...” are used for the terms:

- High protein forage and “dairy production” and developing countries – 1,138
- High protein forage and dairy production and “developing countries” – 3,616
- High protein forage and “dairy production” and “developing countries” - 184

Preview



2 Understanding the regulatory mechanisms of milk production using integrative transcriptomic and proteomic analyses: improving inefficient utilization of crop by-products as forage in dairy...

by Dai, Wenting; Wang, Quanjuan; Zhao, Fengqi; More...

BMC Genomics, 12/2018, Volume 19, Issue 1

...% or more of the diet of dairy cows [1]. Therefore, the quality of forage has a large effect on bovine milk production in the dairy industry. In China, alfalfa hay (AH...

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Preview



3 Complementary transcriptomic and proteomic analyses reveal regulatory mechanisms of milk protein production in dairy cows consuming different forages

by Dai, Wenting; Chen, Qiong; Wang, Quanjuan; More...



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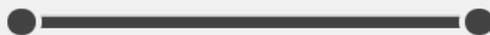
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Review: Optimizing ruminant conversion of feed protein to human food protein

by Broderick, G A

Animal : an international journal of animal bioscience, 08/2018, Volume 12, Issue 8

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2



Dairy... by Dai, Wenting; Wang, Quanjuan; Zhao, Fengqi; More...

BMC Genomics, 12/2018, Volume 19, Issue 1

...% or more of the diet of dairy cows [1]. Therefore, the quality of forage has a large effect on bovine milk production in the dairy industry. In China, alfalfa hay (AH...

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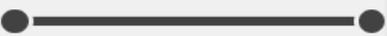
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BMC Genomics. 2018;19(1):1-18 DOI 10.1186/s12864-018-4808-5

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ent source for humans. Forage plays a vital role in dairy husbandry
ferences in mammary metabolism of dairy cows fed different forages



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Understanding the regulatory mechanisms of milk production using integrative transcriptomic and proteomic analyses: improving inefficient utilization of crop by-products as forage in dairy industry

Authors Authors and affiliations

Wenting Dai, Quanjuan Wang, Fengqi Zhao, Jianxin Liu, Hongyun Liu 

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RESEARCH ARTICLE

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Understanding the regulatory mechanisms of milk production using integrative transcriptomic and proteomic analyses: improving inefficient utilization of crop by-products as forage in dairy industry

Wenting Dai¹, Quanjian Wang¹, Fengqi Zhao², Jianxin Liu¹ and Hongyun Liu^{1*}

Abstract

Background: Bovine milk is an important nutrient source for humans. Forage plays a vital role in dairy husbandry via affecting milk quality and quantity. However, the differences in mammary metabolism of dairy cows fed different forages remain elucidated. In this study, we utilized transcriptomic RNA-seq and iTRAQ proteomic techniques to investigate and integrate the differences of molecular pathways and biological processes in the mammary tissues collected from 12 lactating cows fed corn stover (CS, low-quality, $n = 6$) and alfalfa hay (AH, high-quality, $n = 6$).



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... It is anticipated that there will be increasing demand for ruminant **proteins** in the future. Increasing productivity per animal dilutes out the nutritional and environmental costs of maintenance and rearing **dairy** animals up to **production**...
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by [Dai, Wenting](#); [Wang, Quanjuan](#); [Zhao, Fengqi](#); [More...](#)
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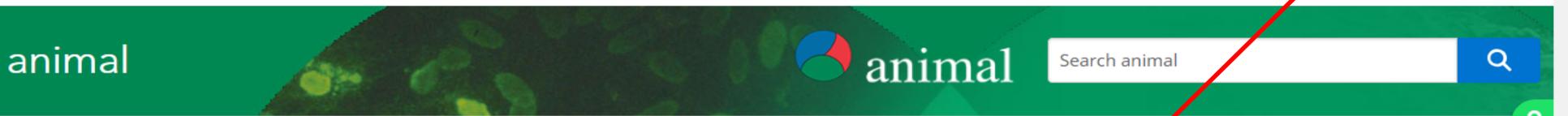
Article: Review: Optimizing ruminant conversion of feed protein to human
 Author: Broderick, G. A.
 Journal: Animal (Cambridge, England)
 ISSN: 1751-7311 Date: 08/01/2018
 Volume: 12 Issue: 8 Page: 1722 - 1734
 DOI: 10.1017/S1751731117002592

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Volume 12, Issue 8 August 2018, pp. 1722-1734
Review: Optimizing ruminant conversion of feed protein to human food protein
G. A. Broderick (a1)

http://login.research4life.org/tacsgr1doi_org/10.1017/S1751731117002592 Published online: 20 November 2017

Abstract
Ruminant livestock have the ability to produce high-quality human food from feedstuffs of little or no value for humans. Balanced essential amino acid composition of feedstuffs is a key factor in producing high-quality human food. It is anticipated that the future. Increasing productivity per animal dilutes out the value of feedstuffs. A number of nutritional strategies are being developed to reduce methane production in ruminants. Rearing dairy animals up to production. A number of nutritional strategies are being developed to reduce methane production in ruminants. Ration balancing in smallholder operations and small greenhouses. Greenhouse gas emission intensity is reduced by increasing the efficiency of feed use. At least one effective inhibitor of methane production in ruminants is being developed. Cattle; milk and component yields can be maintained, and the environmental impact of feeding dairy cows according to production and feeding efficiency can be improved. Supplementing rumen-protected essential amino acids improves protein yield. Supplementing rumen-protected essential amino acids improves protein yield. Better N utilization reduces urinary N, which is the most environmentally unstable form of excretory N. Employing nutritional models to more accurately meet animal requirements improves nutrient efficiency. Although smallholder enterprises, which are concentrated in tropical and semi-tropical regions of developing countries, are subject to different economic pressures, nutritional biology is similar at all production levels. Rather than milk volume,

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Keywords
ruminant dairy
protein production sustainability
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by Cazzato, E; Laudadio, V; Tufarelli, V

Renewable Agriculture and Food Systems, 06/2012, Volume 27, Issue 4

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Animal Feed Science and Technology, 11/2016, Volume 221

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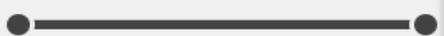
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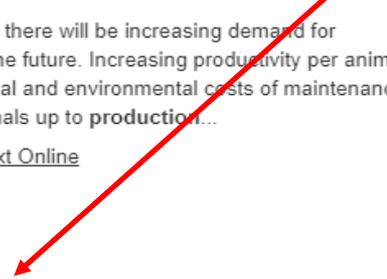
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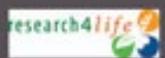
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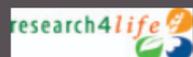
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Consumption, nutrient digestibility and lactation performance of dairy cows fed soybeans in different forms
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The relationship between odd- and branched-chain fatty acids and microbial nucleic acid bases in rumen
Keyuan Liu, Xiaoyan Hao, Yang Li, Guobin Luo, Yonggen Zhang, Hangshu Xin
Asian-Australasian Journal of Animal Sciences. 2017;30(11):1590-1597 DOI 10.5713/ajas.16.0966
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1. Systematic microRNAome profiling reveals the roles of microRNAs in milk protein metabolism and quality: insights on low quality forage utilization. Diming Wang, Guanxiang Liang, Bing Wang, Huizeng Sun, Jianxin Liu, Le Luo Guan. Sci Rep. 2016; 6: 21194. PMCID: PMC4756660. Article PubReader PDF-4.3M Citation. 2. Understanding the regulatory mechanisms of milk production using integrative transcriptomic and proteomic analyses: improving inefficient utilization of crop by-products as forage in dairy industry. Wenting Dai, Quanjuan Wang, Fengqi Zhao, Jianxin Liu, Hongyun Liu. BMC Genomics. 2018; 19: 403. PMCID: PMC5975684. Article PubReader PDF-2.7M Citation. 3. Improving the Yield and Nutritional Quality of Forage Crops. Nicola M. Capstaff, Anthony J. Miller. Front Plant Sci. 2018; 9: 535. PMCID: PMC5928394. Article PubReader PDF-2.0M Citation. 4. Harnessing the Potential of Forage Legumes, Alfalfa, Soybean, and Cowpea for Sustainable Agriculture and Global Food Security. Krishnanand P. Kulkarni, Rupesh Tayade, Sovetgul Asekova, Jong Tae Song, J. Grover Shannon, Jeong-Dong Lee. Front Plant Sci. 2018; 9: 1314. PMCID: PMC5928394.

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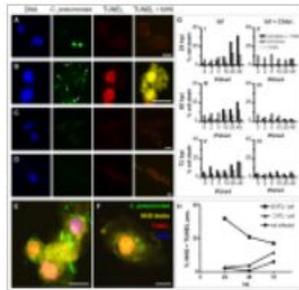
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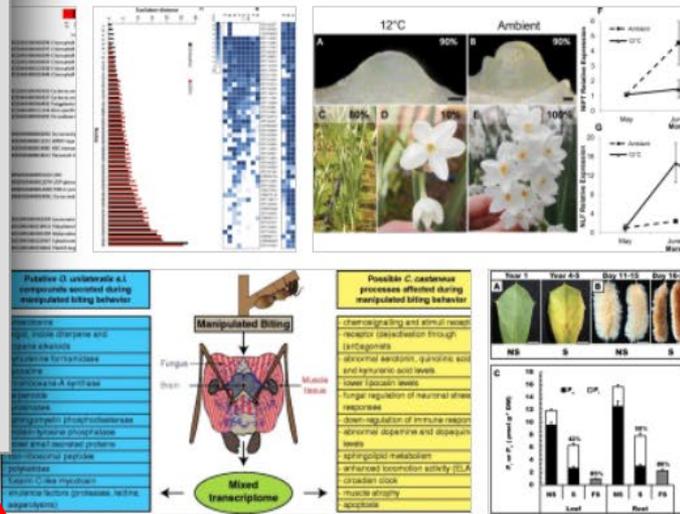
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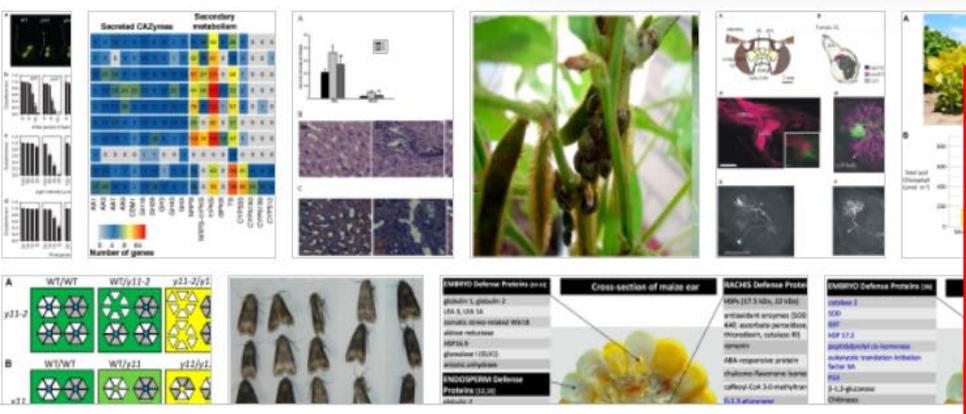
McQuate GT *J. Insect Sci.* (2011)

Bottom Line: Using protein-baited traps set amidst potted plants placed adjacent to a papaya *Carica papaya* L. (Malales: Caricaceae) orchard known to have established populations of *B. cucurbitae* and *B. dorsalis*, the effectiveness of *M. esculenta* as a roosting host was assessed by comparing its attractiveness to that of castor bean, *Ricinus communis* L. (Malpighiales: Euphorbiaceae), previously identified as one of the most attractive roosting hosts for *B. cucurbitae*, and to corn, a crop which has been planted as a roosting host for help in *B. cucurbitae* control. The results showed that use of *M. esculenta* as a roosting host is comparable to use of *R. communis* by both *B. cucurbitae* and *B. dorsalis*. These results provide encouragement to incorporate *M. esculenta* on a farm as a trap crop (i.e. site for bait spray application).

f03_01_01: (A) Control protein bait trap (placed without association to potted plants) in open field 20 m from the border of the *C. papaya* orchard; (B) Close-up of *M. esculenta* cluster showing central positioning of protein bait trap; (C) Close-up of *R. communis* cluster showing central positioning of protein bait trap; and (D) Close-up of *Z. mays* cluster showing central positioning of protein bait trap. High quality figures are available online.



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lthough many small—scale farmers in eastern **Africa** have dairy cows ... **feed** them in a way that will achieve high milk yields. This practical Importance of good **feed in milk production** **Forage rich in protein** can be used to replace part of.

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of livestock feeds and **feed** practices promoted by the East **Africa** Dairy ... drought resistant, has fast growth, increases **milk production** and has high biomass. followed by the ability to increase animal productivity and **high protein** content (...

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Feeding **forage** to **dairy** livestock rapidly as the demand for **milk** and other livestock **products** By growing their own on the farm ...

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Adoption of tropical **forage** legume technology around the world. In **East Africa**, farmers lacked adequate protein for their stall-fed cows. ... provide **high protein** fodder for **dairy production** (Le Van Kh...

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Feed-related investments for **dairy production** in **East Africa** and South Asia relatively more digestible nutrients, and are often **high in protein** (Devendra and ...

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Requirements for **protein** meals for ruminant meat **production** in **developing countries** ... World meat and **milk** supplies must be increased considerably in the next ... Cows on mature **forage** based diets and with **high** genetic merit will mobilise ...

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The growth of meat and **milk** consumption in the **developing world** ... For example, can yield **high** levels of crude **protein** but **produce** gr

Statistical Yearbook of the Food And Agricultural Or

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rice, sugar, vegetable oils, and meat and **dairy prod** ... Saharan **Africa** and Southern Asia are still well below ... is expected to continue, given the limited opportunities ... Source: FAO, Statistics Division (FAOSTAT). CHART ... in crops primary.

Dairy production and products: Gateway to dairy

www.fao.org/dairy-production-products/en/



Milk provides 6 to 8 percent of dietary **protein** supply in **Africa** and Asia, ... capita consumption of milk and **milk products** is **higher in developed countries**, but the ...

82 - FEEDING STRATEGIES FOR IMPROVING MILK PRODUCTION ...

www.fao.org/livestock/agap/frg/AHPP86/Leng.pdf



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are used by the vast majority of small farmers in **developing countries** and are based on low ... The greatest scope for improving a country's **milk production** is through a ... **forages** for dairy animals, two basic concepts must be applied as follows: ... A **high** level of rumen degradable **protein** in the diet may support **high** levels ...

Legume trees and other fodder trees as protein sources for livestock

www.fao.org/docrep/003/t0632e/T0632E06.htm

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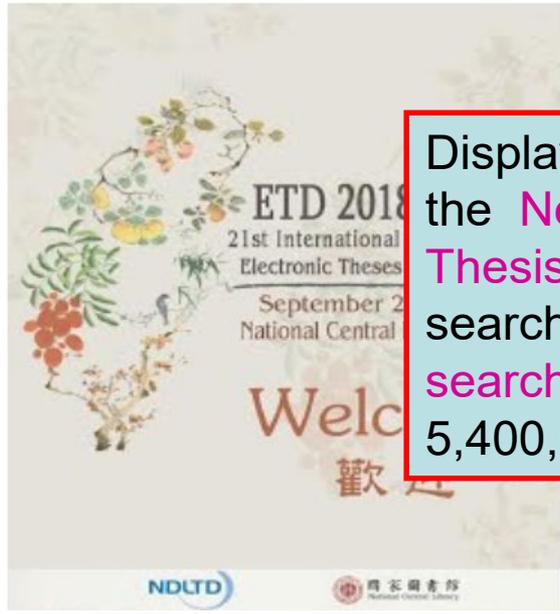
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- Portuguese **8**
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- Czech **1**
- German **1**

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- Agricultural **22**
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- Research **22**

- Nutrient Utilization, Lactational Performance, and Profitability of Dairy Cows by Feeding Protein Supplements in High-Forage Lactation Diets**
Neal, Kathryn 1 May 2014 (has links)

Due to the increasing cost of soybean meal and concerns of excess N being excreted into the environment, new protein supplements have been developed. Two products that have shown potential in increasing N utilization efficiency are slow release urea (SRU; Optigen) and ruminal escape protein derived from yeast (YMP; DEMP). The objective of this study was to assess the effects of feeding these 2 supplements in high-forage [(54% of total dietary dry matter (DM)) dairy diets on nutrient utilization, feed efficiency, lactational performance of dairy cows, and their impacts on income-over feed costs. Twelve multiparous dairy cows were used in a triple 4 × 4 Latin square design with one square consisting of ruminally cannulated cows. Treatments included: 1) control, 2) SRU-supplemented total mixed ration (TMR, SRUT), 3) YMP-supplemented TMR (YMPT), and 4) SRU and YMP-supplemented TMR (SYT). The control consisted only of a mixture of soybean meal and canola meal (SBMCM) in a 50:50 ratio. The SRU and the YMP were supplemented at 0.49% and 1.15% DM, respectively.

Read more

 - Dairy profitability
 - High-forage dairy diet
 - Lactational performance
 - Protein supplement
 - Slow release urea
 - Animal Sciences
 - Nutrition
- Strategic Approaches To Develop Optimal Feeding Program of Brown Midrib Corn Silage to Lactating Dairy Cows in the Intermountain West**
Holt, Michael Shane 1 January 2013 (has links)

In two lactation studies reported in this dissertation, it was hypothesized that feeding 35% brown midrib corn silage (BMRCS) and 25% alfalfa hay (dry matter basis) would result in increased dry matter intake (DMI) around peak lactation compared with feeding conventional corn silage (CCS), causing longer peak milk production, and that feeding dairy cows in early lactation a 16% crude protein diet with fair quality alfalfa hay (FAH) in BMR-based diets would maintain milk production, reduce urinary N excretion, and improve N efficiency compared to those fed high quality alfalfa hay (HAH) in CCS- or BMR-based diets. A third experiment was conducted to assess in situ degradation kinetics of BMRCS harvested prior to or at maturity. The first lactation study was performed to determine the long-term effects of feeding BMRCS fed with a high dietary concentration of good quality alfalfa hay in a high-forage lactation diet on productive performance of Holstein dairy cows for the first 180 d of lactation. Feeding BMRCS-based diet did not affect milk production through peak lactation

Read more

 - Alfalfa
 - Brown Midrib
 - Corn Silage
 - Forage
 - In Situ
 - Lactating
 - Animal Sciences
- CAP-DAIRY : computer aided planning of dairy farms**
Rodrigues, Luiz Henrique Antunes 1995 (has links)



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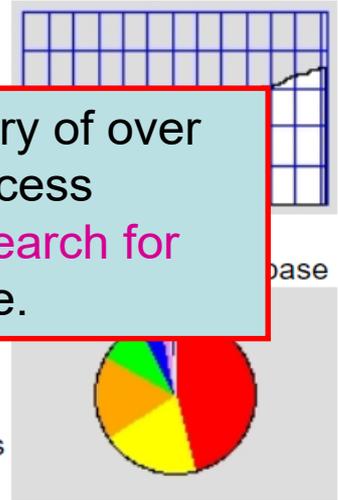
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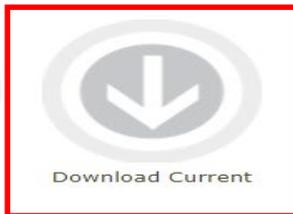


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Exercise 2 – Keyword Searches using Tools

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- Open **PubMed Central** (<https://www.ncbi.nlm.nih.gov/pmc>), complete the same search.
- What is the number of citations? Open one of the full text links.
- Open **NDLTH search tool** (search.ndltd.org) and complete the same search.
- How many thesis and dissertations are available? Would the resources listed be useful?
- Repeat search with other tools.





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