



# FEED THE FUTURE

The U.S. Government's Global Hunger & Food Security Initiative



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The U.S. Government's Global Hunger & Food Security Initiative



## 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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# FEED THE FUTURE

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## Webinar #3

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





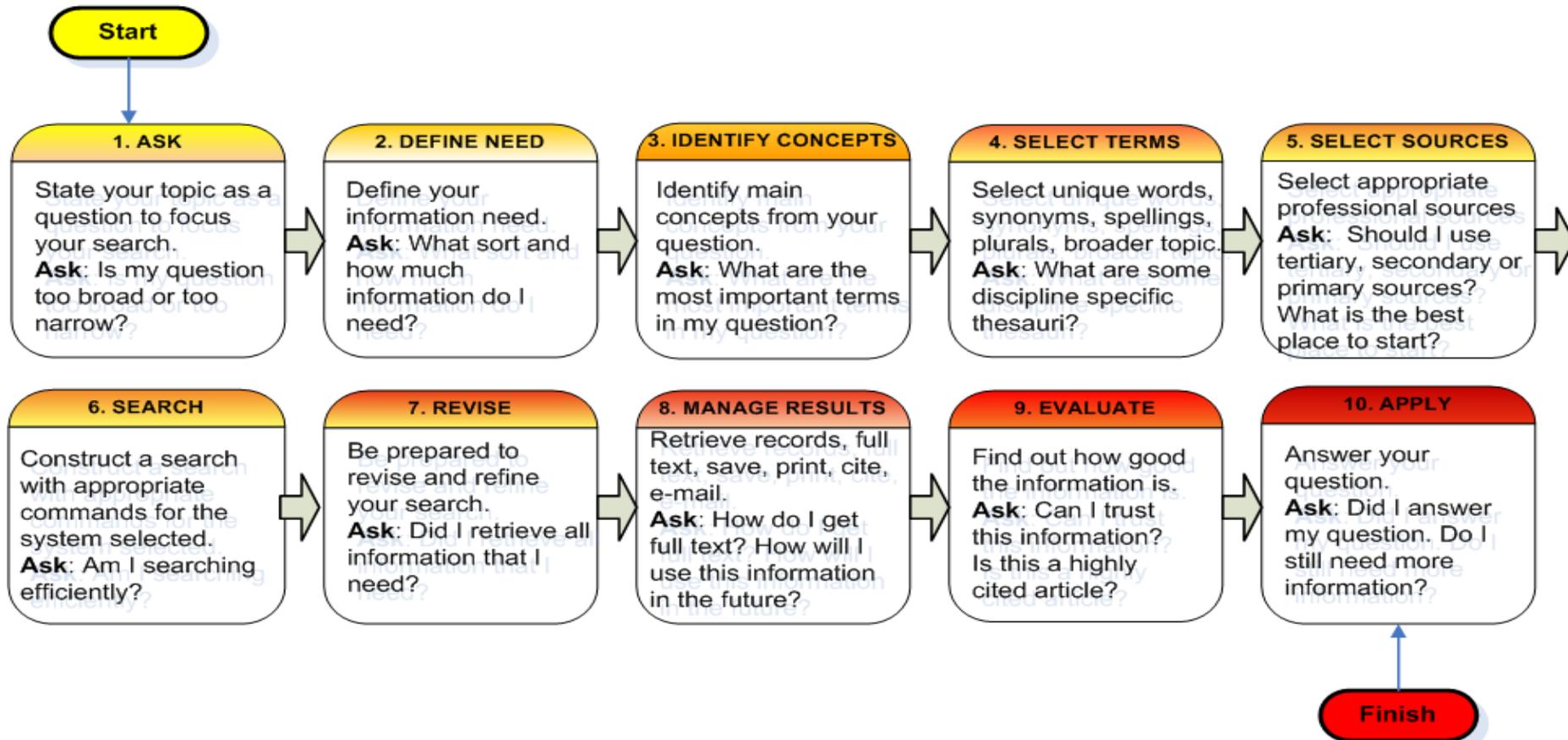
## Table of Contents

- 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

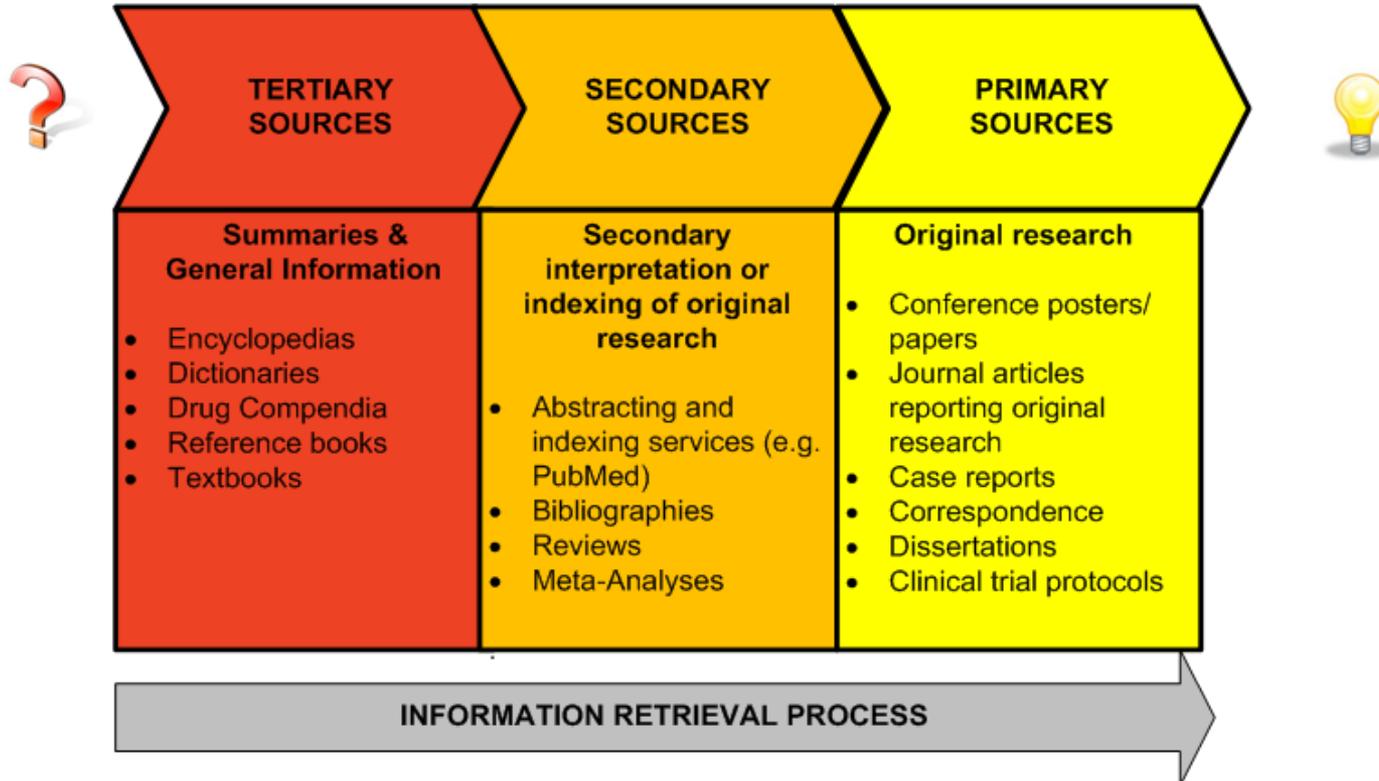




## Step 5: Select a Source

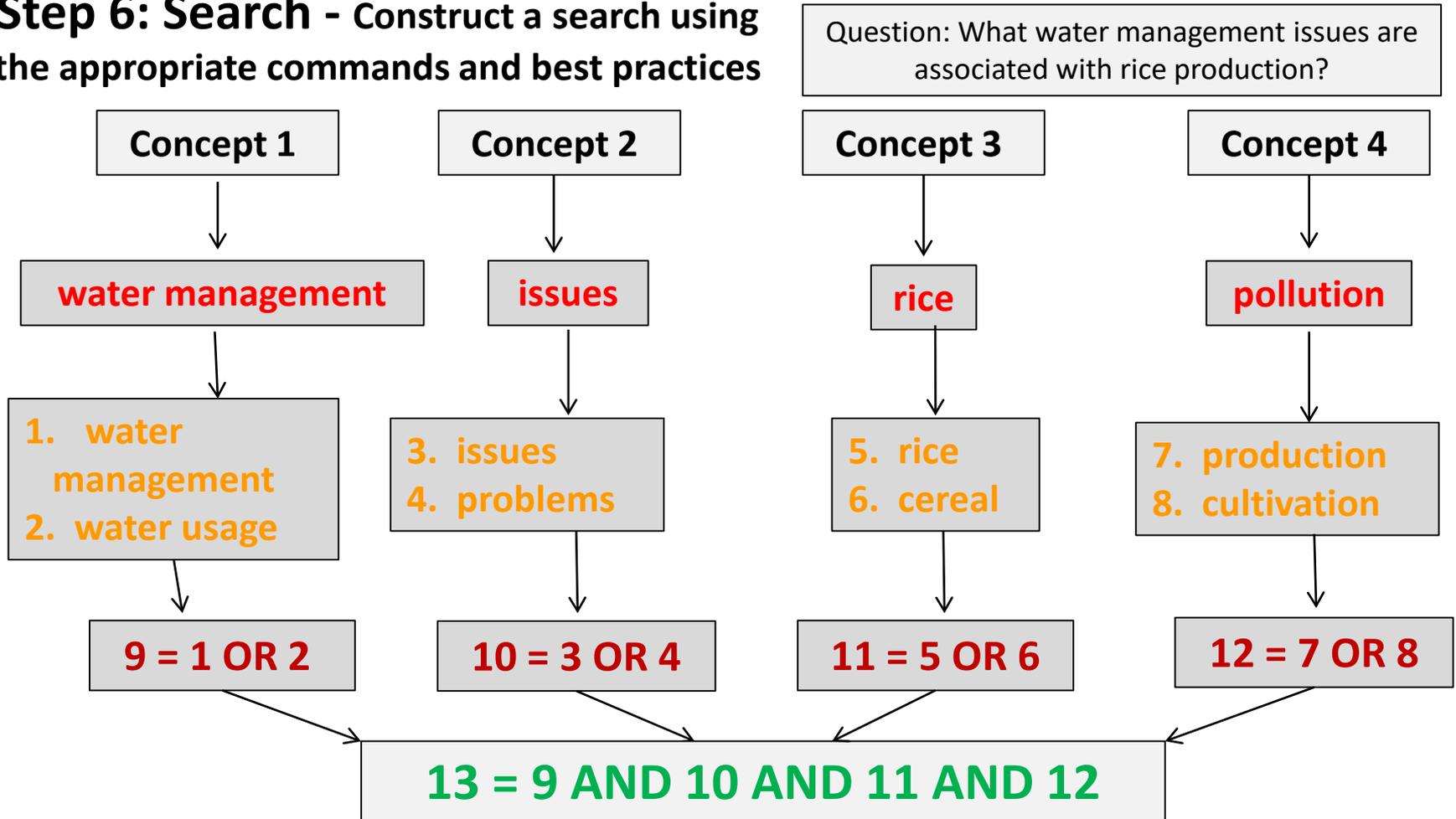
### Types of Information Sources and Information Retrieval Process

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



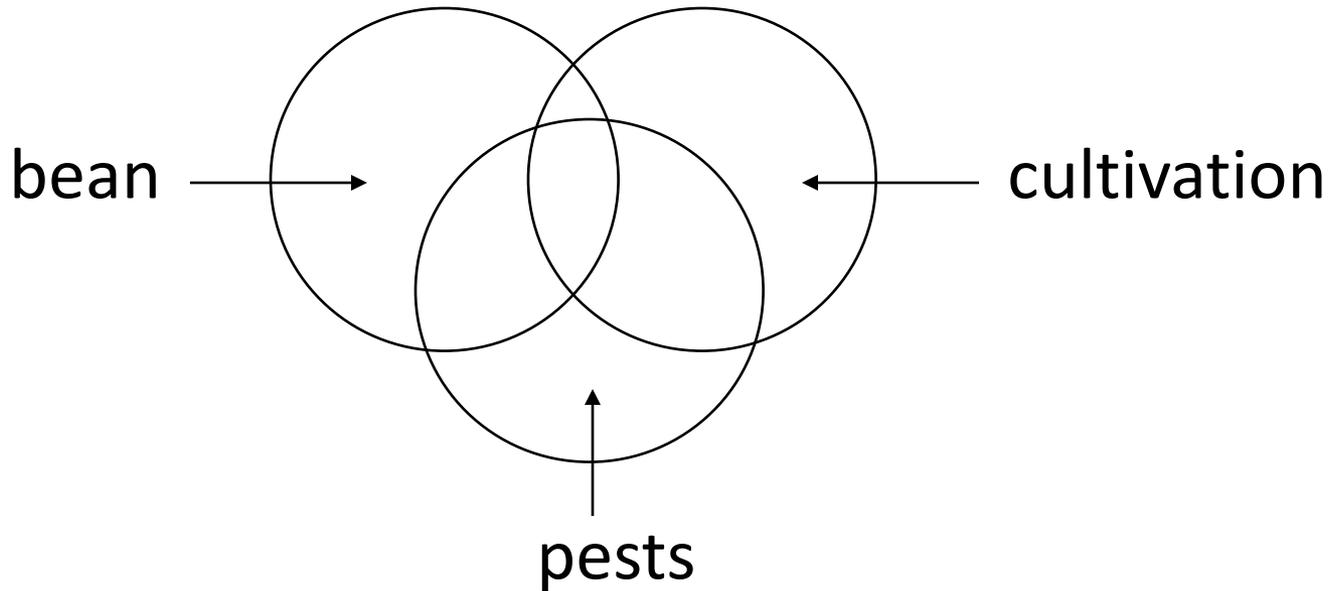


## Step 6: Search - Construct a search using the appropriate commands and best practices





## AND Operator (to combine three concepts)

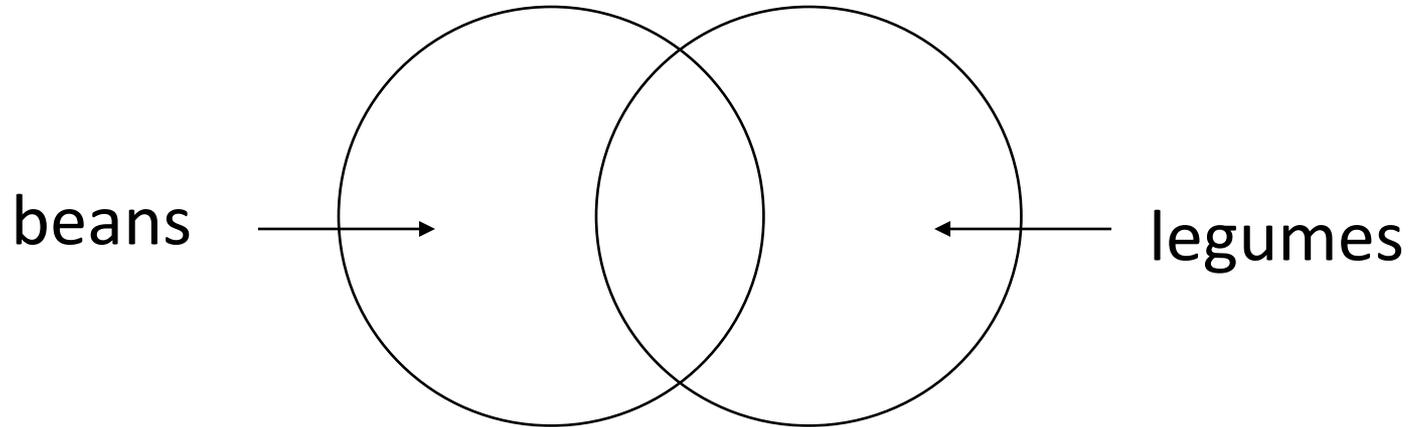


the **AND** operator is used to combine three concepts  
e.g. bean AND cultivation AND pests - in the  
combined area of the three circles





## OR Operator (info containing one or other term)

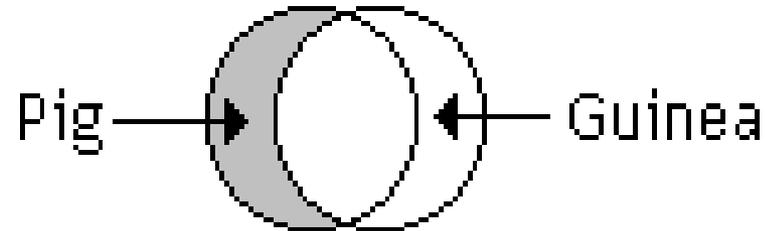


the **OR** is a means of combining synonyms e.g. beans OR legumes - in each circle's area with the overlap in the middle having both search terms





## 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





# AGORA

ACCESS TO GLOBAL ONLINE RESEARCH IN AGRICULTURE

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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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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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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.

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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...

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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.

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  - zoology (1,585)
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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

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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3 **Complementary transcriptomic and proteomic analyses reveal regulatory mechanisms of milk protein production in dairy cows consuming different forages**  
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BMC Genomics. 2018;19(1):1-18 DOI 10.1186/s12864-018-4808-5

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Hongyun Liu (Institute of Dairy Science, College of Animal Sciences, Zhejiang University)

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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



[BMC Genomics](#)

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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 Dai<sup>1</sup>, Quanjian Wang<sup>1</sup>, Fengqi Zhao<sup>2</sup>, Jianxin Liu<sup>1</sup> and Hongyun Liu<sup>1\*</sup>

## 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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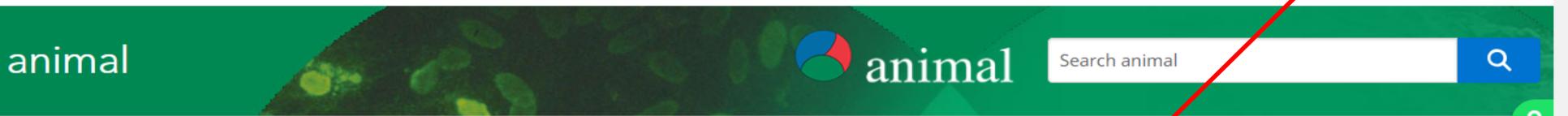
Article: Review: Optimizing ruminant conversion of feed protein to human  
 Author: Broderick, G. A.  
 Journal: Animal (Cambridge, England)  
 ISSN: 1751-7311 Date: 08/01/2018  
 Volume: 12 Issue: 8 Page: 1722 - 1734  
 DOI: 10.1017/S1751731117002592

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Volume 12, Issue 8 August 2018, pp. 1722-1734  
**Review: Optimizing ruminant conversion of feed protein to human food protein**  
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**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 feedstuffs. 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 improve the efficiency of ruminant production. One strategy is to reduce the amount of feedstuffs required to produce a unit of product. Another strategy is to improve the efficiency of feedstuffs utilization. A third strategy is to improve the efficiency of feedstuffs conversion. A fourth strategy is to improve the efficiency of feedstuffs utilization. A fifth strategy is to improve the efficiency of feedstuffs conversion. A sixth strategy is to improve the efficiency of feedstuffs utilization. A seventh strategy is to improve the efficiency of feedstuffs conversion. 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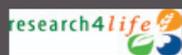


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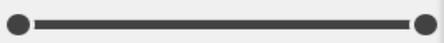
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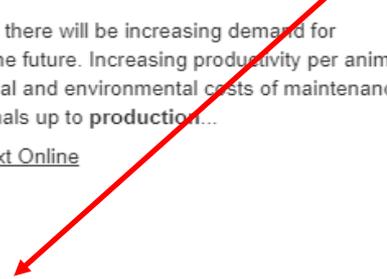
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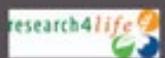
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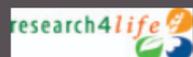
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high protein forage and dairy production and developing countries

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DISCIPLINE

- agriculture (461)
- veterinary medicine (113)
- engineering (95)
- zoology (75)
- economics (65)

SUBJECT TERMS

- agriculture, dairy & animal science (266)
- cattle (252)
- diet (165)
- animals (123)
- fermentation (118)

LANGUAGE



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 main

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2 **Unde**  
**pro**  
 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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3 **Effects of limit-feeding diets with different forage-to-concentrate ratios on nutrient intake, rumination...**  
 by Zhang, Jun; Shi, Haitao; Wang, Yajing; More...

Animal Science Journal, 03/2018, Volume 89, Issue 3

...) nonfiberous carbohydrates intake, ruminal concentrations of



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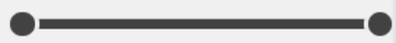
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Annual Review of Animal Biosciences, 02/2017, Volume 5, Issue 1  
... By and large, most research in tropical areas is still focused

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**+ Journal Country**

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search term

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1 - 10 of 1693183

**An Optical Spectroscopic Study of HH 110: a Turbulent Mixing Layer?**  
**Subjects:** Astronomy, Science, Astronomy (General), Physics and Astronomy, Astronomy, Science, Astronomy (General), Physics and Astronomy, Astronomy, Science, Astronomy (General), Physics and Astronomy, Astronomy, Science, Astronomy (General).  
**Journal Country:** Mexico  
**Authors:** S. Ayala, A. C. Raga, S. Curiel  
**Publisher:** Instituto de Astronomía  
**Date of publication:** 2003  
**Published in:** Revista Mexicana de Astronomía y Astrofísica, Vol 15, Pp 134(2003)  
**ISSN(s):** 0185-1101  
**Date added to DOAJ:** 2013-03-01  
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1 - 10 of 31

Environmental impact of cow milk production in the central Italian Alps using Life Cycle Assessment  
Chiara A. Penati, Alberto Tamburini, Luciana Bava, Maddalena Zucali, Anna Sandrucci  
Italian Journal of Animal Science. 2013;12(4):e96-e96 DOI 10.4081/ijas.2013.e96  
Abstract | Full Text

Consumption, nutrient digestibility and lactation performance of dairy cows fed soybeans in different forms  
Angela Maria de Vasconcelos, Sebastião de Campos Valadares Filho, Marcia Dias, Vinicio Araujo Nascimento, Débora Andréa Evangelista Façanha, Juliano José de Resende Fernandes  
Semina: Ciências Agrárias. 2015;36(4):2775-2786 DOI 10.5433/1679-0359.2015v36n4p2775  
Abstract | Full Text

Effect of exogenous fibrolytic enzymes on performance and blood profile in early and mid-lactation Holstein cows  
Anja Peters, Ulrich Meyer, Sven Dänicke  
Animal Nutrition. 2015;1(3):229-238  
Abstract | Full Text

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  
Abstract | Full Text





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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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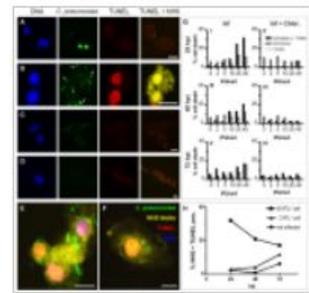
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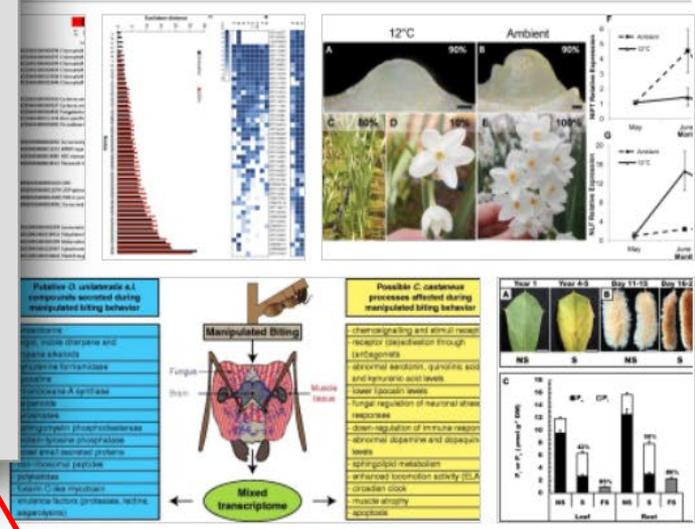
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### Assessment of attractiveness of cassava as a roosting plant for the melon fly, *Bactrocera cucurbitae*, and the Oriental fruit fly, *B. dorsalis*.

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.

[Preferences and adoption of livestock feeding practices dairy Kenya ...](#)

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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 ( ...

[Fodder Shrubs for Dairy Farmers in East Africa](#)

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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

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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.

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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 ...

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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 ...

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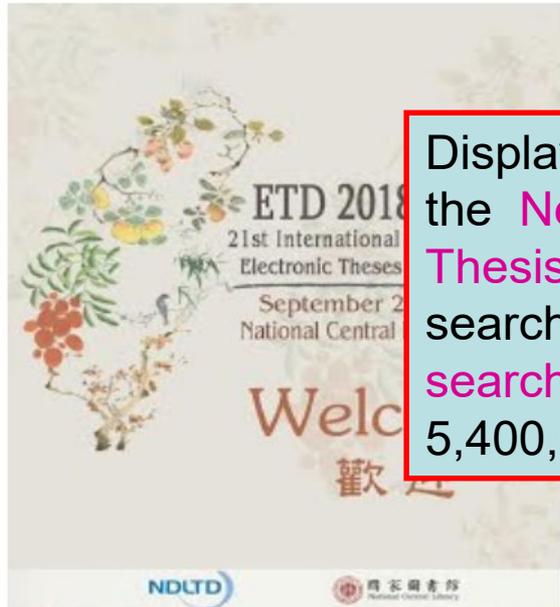
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1 **Nutrient Utilization, Lactational Performance, and Profitability of Dairy Cows by Feeding Protein Supplements in High-Forage Lactation Diets**  
*Neal, Kathryn 1 May 2014* (has links)

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.

2 **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

3 **CAP-DAIRY : computer aided planning of dairy farms**  
*Rodrigues, Luiz Henrique Antunes 1995* (has links)



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## The Directory of Open Access Repositories - OpenDOAR

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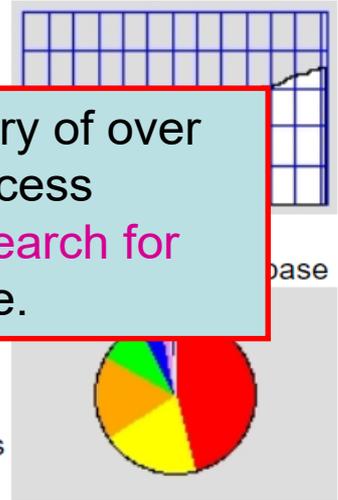
OpenDOAR has over 2600 listings!

OpenDOAR is an authoritative directory of academic open access repositories. Each OpenDOAR repository has been visited by project staff to check the information that is recorded here. This in-depth approach does not rely on automated analysis and gives a [quality-controlled](#) list of repositories.

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The current directory lists repositories and allows breakdown and search. See the [Find](#) page - which can also be viewed as [statistical charts](#). The underlying data can be used from the ground up to include in-depth information on each repository, for example, for analysis, or underpinning services like text-mining. The OpenDOAR project is being developed incrementally, developing the current service as new features are introduced. A list of [Upgrades and Additions](#) is available.



Repositories by Continent

Developments will be of use both to users wishing to find original research papers and for service providers like search engines or alert services which need easy-to-use tools for developing tailored search services to suit specific user communities.

OpenDOAR is one of the SHERPA Services including [RoMEO](#) and [JULIET](#), run by the [Centre for Research Communications](#) (CRC). Current development work is [currently funded](#) by [JISC](#), with contributions from the CRC host organisation, the [University of Nottingham](#).



## Search or Browse for Repositories

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 Any Subject Area  Any Software    
 Sort by:  Repository Name

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  - Agriculture, Food and Veterinary (154)
  - Biology and Biochemistry (161)
  - Chemistry and Chemical Technology (104)
  - Earth and Planetary Sciences (93)
  - Ecology and Environment (159)
  - Mathematics and Statistics (128)
  - Physics and Astronomy (111)
  - Health and Medicine (336)
  - Technology General (247)
  - Architecture (64)

repositories listed in OpenDOAR, please see our [Content Search](#) page.

Page: << Previous 1 2 3 4 5 6 7 8 9 10 Next >>

[internationale und interdisziplinäre Rechtsforschung](#), Germany  
 (tR>²Dok) is a disciplinary repository of the Scientific Information Service for International and  
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Note the huge number of **articles found**. The first two listed are relevant.

Advanced Search

Refine your search

Publication type

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Year



Languages

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- Indonesian 45,122
- Portuguese 42,325
- German 38,230
- Spanish 28,209
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### Integrated forage and livestock production

By [John E. Hermansen](#) and [Troels Kristensen](#)

**Repository:** Organic Eprints | 2004

...Integrated Forage and Livestock Production JOHN E. HERMANSEN and TROELS KRISTENSEN Danish Institute of Agricultural Sciences, Dept. of Agroecology, Research Centre

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**Repository:** T-Stór | 2009

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## Appendix: DSPACE (institutional repository application software)

[dspace.org](https://dspace.org)



Developed by the Massachusetts Institute of Technology, **DSPACE** (dspace.org) is a free software to build open access repositories - for academic and non-profit organizations. Click on **Download Current** or **Users/Developers drop down menu** – for technical instructions.

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## Exercise 2 – Keyword Searches using Tools

- Open **Directory of Open Access Journals** (<https://doaj.org>), complete a keyword search of interest to you.
- What is the number of citations and are they useful?
- 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](http://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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## 4<sup>th</sup> Webinar: *Library Access for Success*

### 14 November 2018

### “How to Store Your References & Content”

- Overview of Mendeley reference management software (basic version is a free resource)
- Register now by visiting <http://livestocklab.ifas.ufl.edu/events/>
- *Questions?* Email [livestock-lab@ufl.edu](mailto:livestock-lab@ufl.edu)



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