Identifying Institutional Trends in Collaborative and Interdisciplinary Research Using Bibliometrics

Gregory K. Youngen
Cunningham Memorial Library
Indiana State University
Terre Haute, IN

Association of Interdisciplinary Studies
Miami University
November 7-9, 2013

Indiana State
University

Intersection of STM / Social Sciences / Arts & Humanities

Web of Science 2000-2013
14,841,101 Records

Overlap:
STM+SS   735,010
SS+A&H   155,464
A&H+STM   40,050
A&H+SS+STM   28,110
(-Book Reviews) 17,143

Science / Technology / Medicine
13,113,065

Social Sciences
1,949,799

Arts & Humanities
681,408
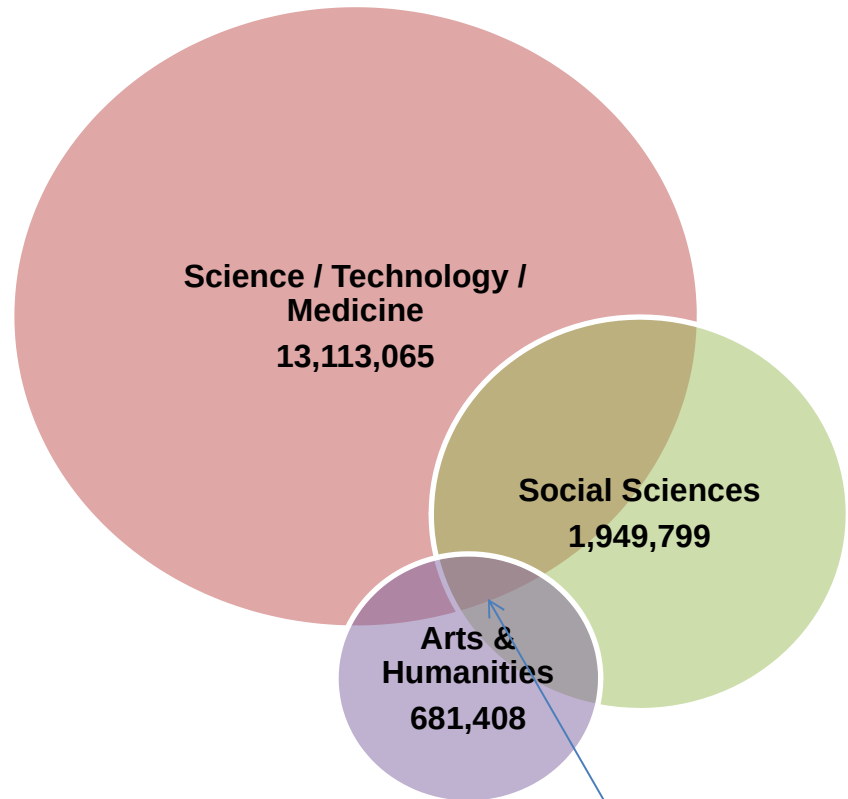
Sweet Spot

WEB OF KNOWLEDGE℠ | DISCOVERY STARTS HERE

THOMSON REUTERS

Go to mobile site   **Signed In** | Marked List (0) | EndNote | ResearcherID | Saved Searches and Alerts ▼ | Log Out | Help

All Databases	Select a Database	Web of Science	Additional Resources

Search   Author Search   Cited Reference Search   Advanced Search   Search History

Indiana State University   MORE INFORMATION FOR NEW USERS

Web of Science®

Search

47802	in	Address	
Example: Yale Univ SAME hosp (view abbreviations list)			
AND	in	Author	Select from Index
Example: O'Brian C* OR OBrian C*			
Need help finding papers by an author? Use Author Search.			
AND	in	Publication Name	Select from Index
Example: Cancer* OR Journal of Cancer Research and Clinical Oncology			

Add Another Field >>

[Search]   [Clear]

Limits: (Save As My Defaults)

   ⊟ **Timespan**

     ○ [All years] (updated 2013-11-01)

     ● From [2000] to [2013] (default is all years)

   ⊟ **Citation Databases**

     ☑ Science Citation Index Expanded (SCI-EXPANDED) --1984-present

     ☑ Social Sciences Citation Index (SSCI) --1984-present

     ☑ Arts & Humanities Citation Index (A&HCI) --1984-present

   ⊞ **Search Settings**

   ⊞ **Results Settings**

View in: | 简体中文 | 繁體中文 | English | 日本語 | 한국어 | Português | Español

---

Welcome, Greg Youngen

Get EndNote X7 now!
Store your references and PDFs, find full text, and sync your library across desktop, online and iPad.Try it now!

Training and Support

● Download Quick Recorded Training

Find us on Facebook 👍Like

What's new in Web of Knowledge?

● Discover emerging regional research topics with the new SciELO Citation Index.
● More of What's New

Featured Tips

● Visualize citation connections at a glance with Citation Mapping (view demo).
● Identify citation trends graphically with Citation Report (view demo).
● How to update your Researcher ID profile.

My Web of Knowledge

● **EndNote**
● **Citation Alerts**
● **Saved Searches**
   -ISU articles
   -Interdisc 2013 *

● **Preferences**
*Alerting active

WEB OF KNOWLEDGE℠ | DISCOVERY STARTS HERE

THOMSON REUTERS

Signed In | Marked List (0) | EndNote | ResearcherID | Saved Searches and Alerts ▼ | Log Out | Help

All Databases | Select a Database | Web of Science | Additional Resources

Search   Author Search   Cited Reference Search   Advanced Search   Search History
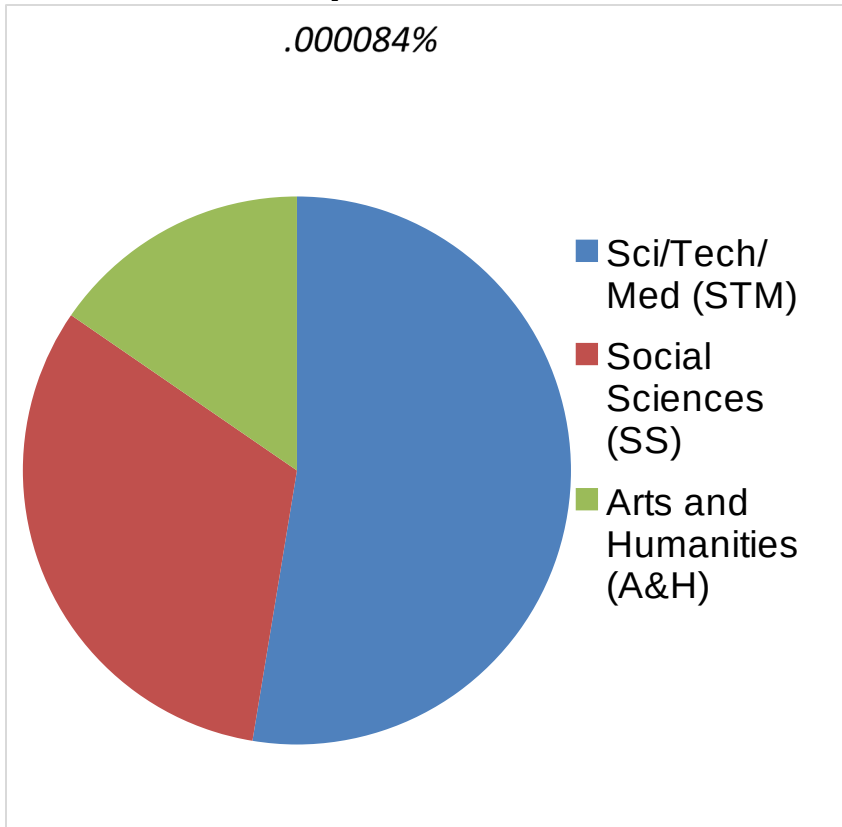
Web of Science®

Search History

Set	Results		Edit Sets	Combine Sets	Delete Sets
		Save History / Create Alert Open Saved History		○ AND ○ OR Combine	Select All ✕ Delete
# 5	28,133	#4 AND #3 AND #2 *Databases=SCI-EXPANDED, SSCI, A&HCI Timespan=2000-2013*	Edit	☐	☐
# 4	681,408	Address=(univ* or coll*) *Databases=A&HCI Timespan=2000-2013*	Edit	☐	☐
# 3	1,949,799	Address=(univ* or coll*) *Databases=SSCI Timespan=2000-2013*	Edit	☐	☐
# 2	13,113,065	Address=(univ* or coll*) *Databases=SCI-EXPANDED Timespan=2000-2013*	Edit	☐	☐
# 1	14,841,101	Address=(univ* or coll*) *Databases=SCI-EXPANDED, SSCI, A&HCI Timespan=2000-2013*	Edit	☐	☐
				○ AND ○ OR Combine	Select All ✕ Delete

View in: | 简体中文 | 繁體中文 | English | 日本語 | 한국어 | Português | Español

ISU Piece of the Pie
Publications 2000-2013

ISU Publications
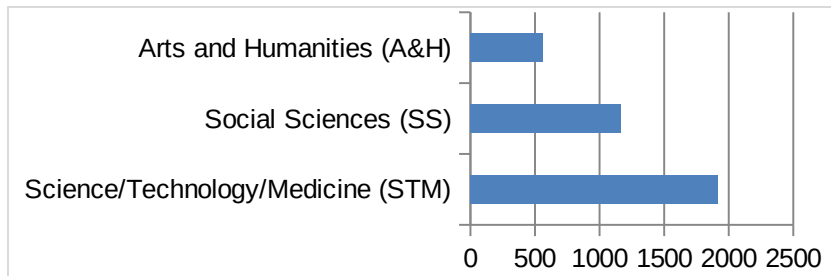**1,766 publications**

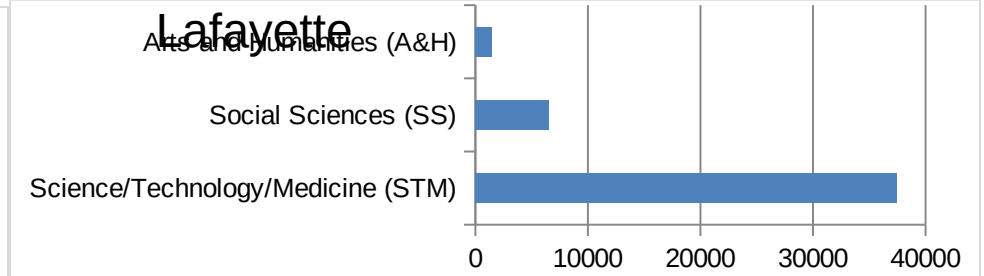*.000084%*

ISI Web of Science
14,841,101 records
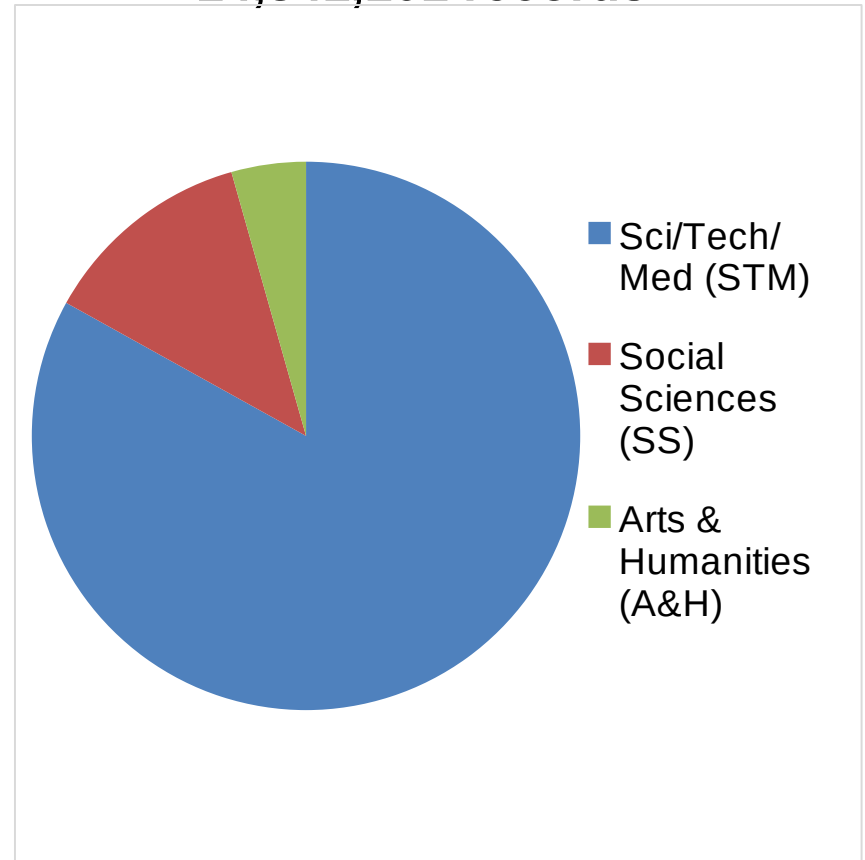
Comparison of 4 Indiana universities' research publication output (2000-2013)
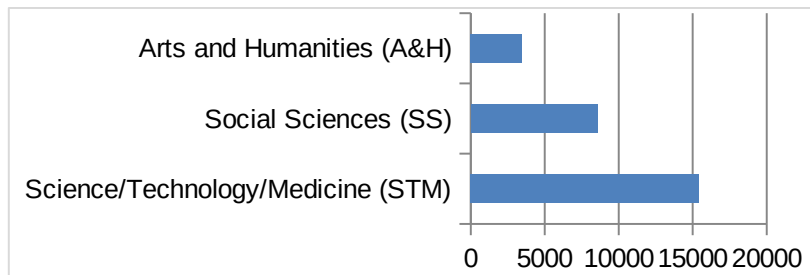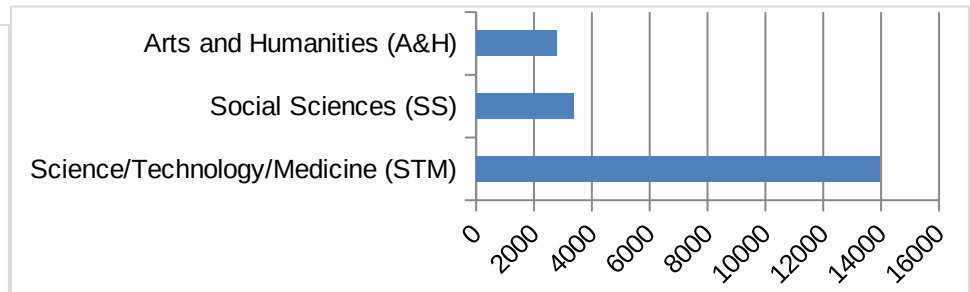*Source: Web of Science (10/10/2013)*

Indiana State University

- Arts and Humanities (A&H)
- Social Sciences (SS)
- Science/Technology/Medicine (STM)

0 500 1000 1500 2000 2500

Purdue University – W. Lafayette

- Arts and Humanities (A&H)
- Social Sciences (SS)
- Science/Technology/Medicine (STM)

0 10000 20000 30000 40000

Indiana University - Bloomington

- Arts and Humanities (A&H)
- Social Sciences (SS)
- Science/Technology/Medicine (STM)

0 5000 10000 15000 20000

University of Notre Dame

- Arts and Humanities (A&H)
- Social Sciences (SS)
- Science/Technology/Medicine (STM)

0 2000 4000 6000 8000 10000 12000 14000 16000

Multidisciplinary Subject Areas
IU-B and Purdue
(STM+SS+A&H)

Indiana University - Bloomington

- HISTORY PHILOSOPHY OF SCIENCE
- ANTHROPOLOGY
- EVOLUTIONARY BIOLOGY
- GEOSCIENCES MULTIDISCIPLINARY
- PHILOSOPHY
- BIOLOGY
- ARCHAEOLOGY
- HEALTH CARE SCIENCES SERVICES
- LINGUISTICS

Purdue University - W. Lafayette

- HISTORY PHILOSOPHY OF SCIENCE
- ANTHROPOLOGY
- ARCHAEOLOGY
- GEOSCIENCES MULTIDISCIPLINARY
- NEUROSCIENCES
- AUDIOLOGY SPEECH LANGUAGE PATHOLOGY
- PHILOSOPHY
- PSYCHOLOGY EXPERIMENTAL
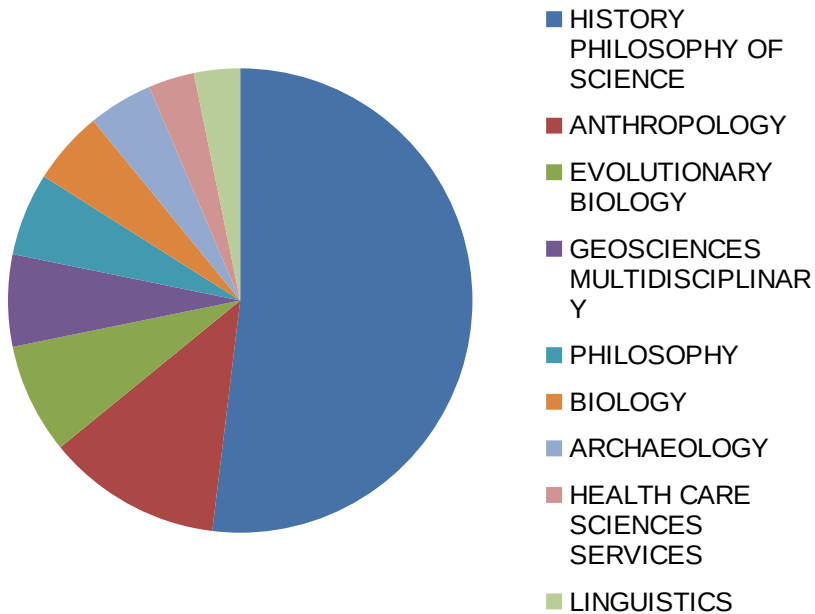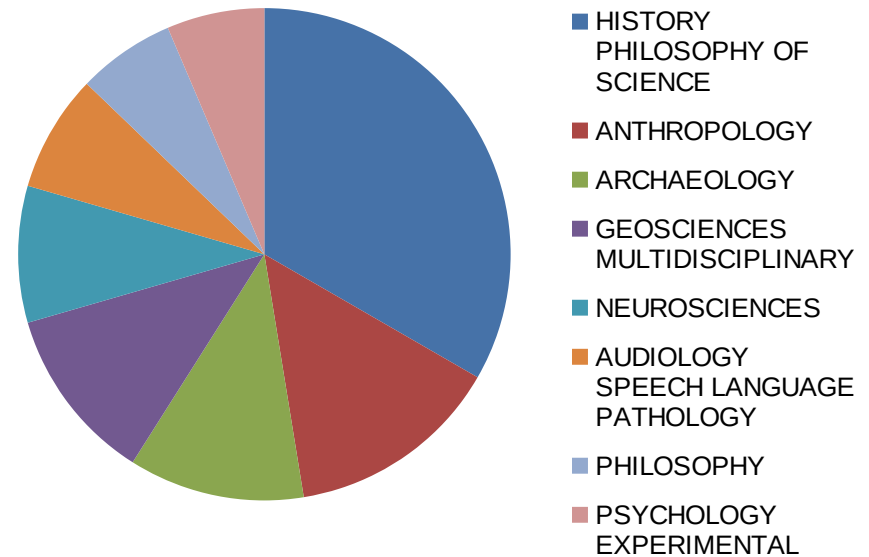
Web of Science Bibliographic Record

Title: ***Thinking beyond the Cure: A Case for Human-Centered Design in Cancer Care***

Author(s): Mullaney, T (Mullaney, Tara); Pettersson, H (Pettersson, Helena);….

Abstract: In this paper we explore how human-centered design can expand the solution space surrounding patient experience in healthcare, looking specifically at patient emotional wellbeing. …

Accession Number: WOS:000313074600003

Author Keywords: Person-Centered Care; Human-Centered Design; Patient Experience; Social Construction of Technology

KeyWords Plus: PROSTATE CARCINOMA; RADIATION-THERAPY; ANXIETY; CHEMOTHERAPY; RADIOTHERAPY; PERCEPTIONS; HEAD; PAIN

Addresses: [Mullaney, Tara] Umea Univ, Umea Inst Design, Umea, Sweden.
   [Pettersson, Helena] Umea Univ, Dept Culture & Media Studies, Umea, Sweden.
   [Nyholm, Tufve] Norrlands Univ Hosp, Umea, Sweden.
   [Nyholm, Tufve] Umea Univ, Dept Radiat Sci, Umea, Sweden.
[Stolterman, Erik] Indiana Univ, Sch Informat, Dept Chair, Bloomington, IN USA.

Web of Science Categories: Art; Engineering, Multidisciplinary; Engineering, Manufacturing; Social Sciences, Interdisciplinary

Research Areas: Art; Engineering; Social Sciences - Other Topics

Sampling of Recent Publications (2013)

- ***Touching Materials Visually: About the Dominance of Vision in Building Material Assessment***
  Art; Engineering, Multidisciplinary; Engineering, Manufacturing; Social Sciences, Interdisciplinary

- ***The Endorsement of the Moral Foundations in Food-Related Moral Thinking in Three European Countries***
  Agriculture, Multidisciplinary; Ethics; Environmental Sciences; History & Philosophy Of Science

- ***Human Enhancement and Communication: On Meaning and Shared Understanding***
  Ethics; Engineering, Multidisciplinary; History & Philosophy Of Science; Multidisciplinary Sciences; Philosophy

- ***Embedding philosophers in the practices of science: bringing humanities to the sciences***
  History & Philosophy Of Science; Philosophy

Subject Headings / Overlap

Multidisciplinary 2013 Publications
Source: ISI Web of Science 10/10/2013

SC=Research Areas

HISTORY PHILOSOPHY OF SCIENCE (SS)	644	48.677
ANTHROPOLOGY (SS)	396	29.932
GEOLOGY (STM)	374	28.269
ARCHAEOLOGY (A&H)	328	24.792
PHILOSOPHY (A&H)	132	9.977
SOCIAL SCIENCES OTHER TOPICS (SS)	123	9.297
EDUCATION EDUCATIONAL RESEARCH (SS)	84	6.349
SCIENCE TECHNOLOGY OTHER TOPICS (STM)	67	5.064
EVOLUTIONARY BIOLOGY (STM)	66	4.989
AGRICULTURE (STM)	54	4.082
LINGUISTICS		

Source Titles

Multidisciplinary 2013 Publications

Source: ISI Web of Science 10/10/2013

Source Titles	records	% of 1323
JOURNAL OF ARCHAEOLOGICAL SCIENCE	328	24.792
SYNTHESE	127	9.599
SCIENCE EDUCATION	80	6.047
AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY	63	4.762
BIOLOGY PHILOSOPHY	42	3.175
JOURNAL OF AGRICULTURAL ENVIRONMENTAL ETHICS	39	2.948
QUATERNARY INTERNATIONAL	30	2.268
BRITISH JOURNAL FOR THE PHILOSOPHY OF SCIENCE	26	1.965
SOCIAL HISTORY OF MEDICINE	26	1.965
STUDIES IN HISTORY AND PHILOSOPHY OF SCIENCE	25	1.89
PLOS ONE	24	1.814
PHILOSOPHY OF SCIENCE	22	1.663
SCIENCE IN CONTEXT	20	1.512
JOURNAL OF MEDICAL ETHICS	19	1.436

Funding Organizations
Multidisciplinary 2013 Publications
Source: ISI Web of Science 10/10/2013

Funding Agencies	records	% of 1323
NATIONAL SCIENCE FOUNDATION	44	3.326
WELLCOME TRUST	19	1.436
NSF	16	1.209
AUSTRALIAN RESEARCH COUNCIL	15	1.134
AHRC	14	1.058
AQUITAINE REGION	14	1.058
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	13	0.983
LEVERHULME TRUST	13	0.983
NATIONAL RESEARCH FOUNDATION NRF OF SOUTH AFRICA	12	0.907
PROVENCE ALPES COTE D AZUR REGION	12	0.907
NATIONAL NATURAL SCIENCE FOUNDATION OF CHINA	11	0.831
SPANISH MINISTRY OF SCIENCE AND INNOVATION	11	0.831
EUROPEAN RESEARCH COUNCIL	10	0.756
FRENCH MINISTRY OF FOREIGN AFFAIRS MAE	10	0.756
PALEONTOLOGICAL SCIENTIFIC TRUST PAST	10	0.756

Funding Organizations
Multidisciplinary 2013 Publications
Source: ISI Web of Science 10/10/2013
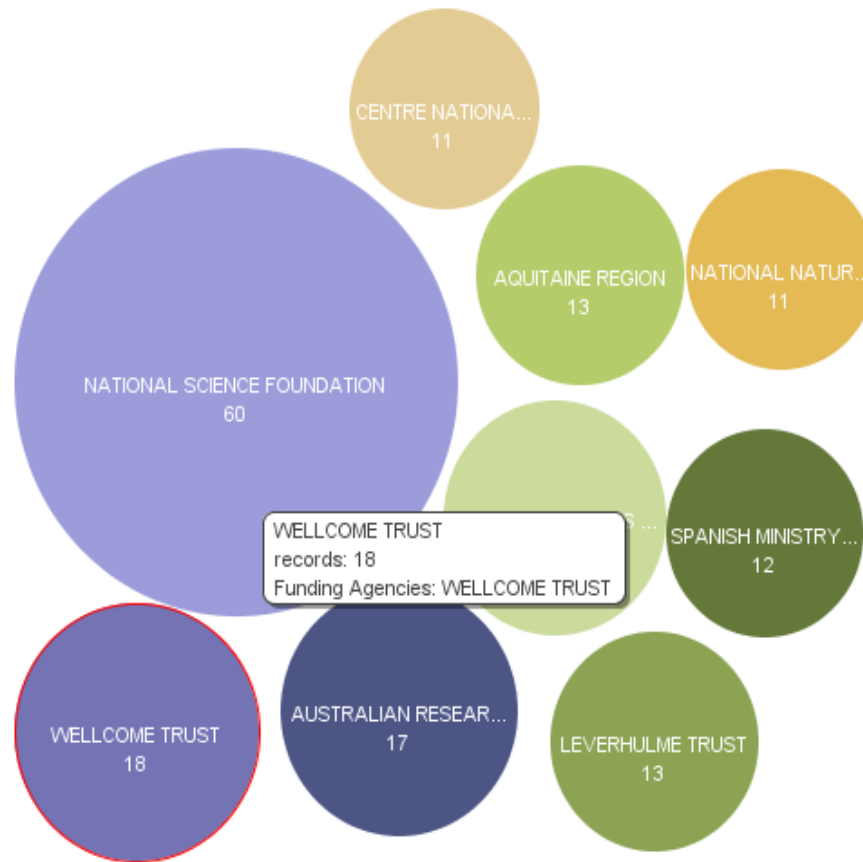
Author Institutions

## Multidisciplinary 2013 Publications

Source: ISI Web of Science 10/10/2013

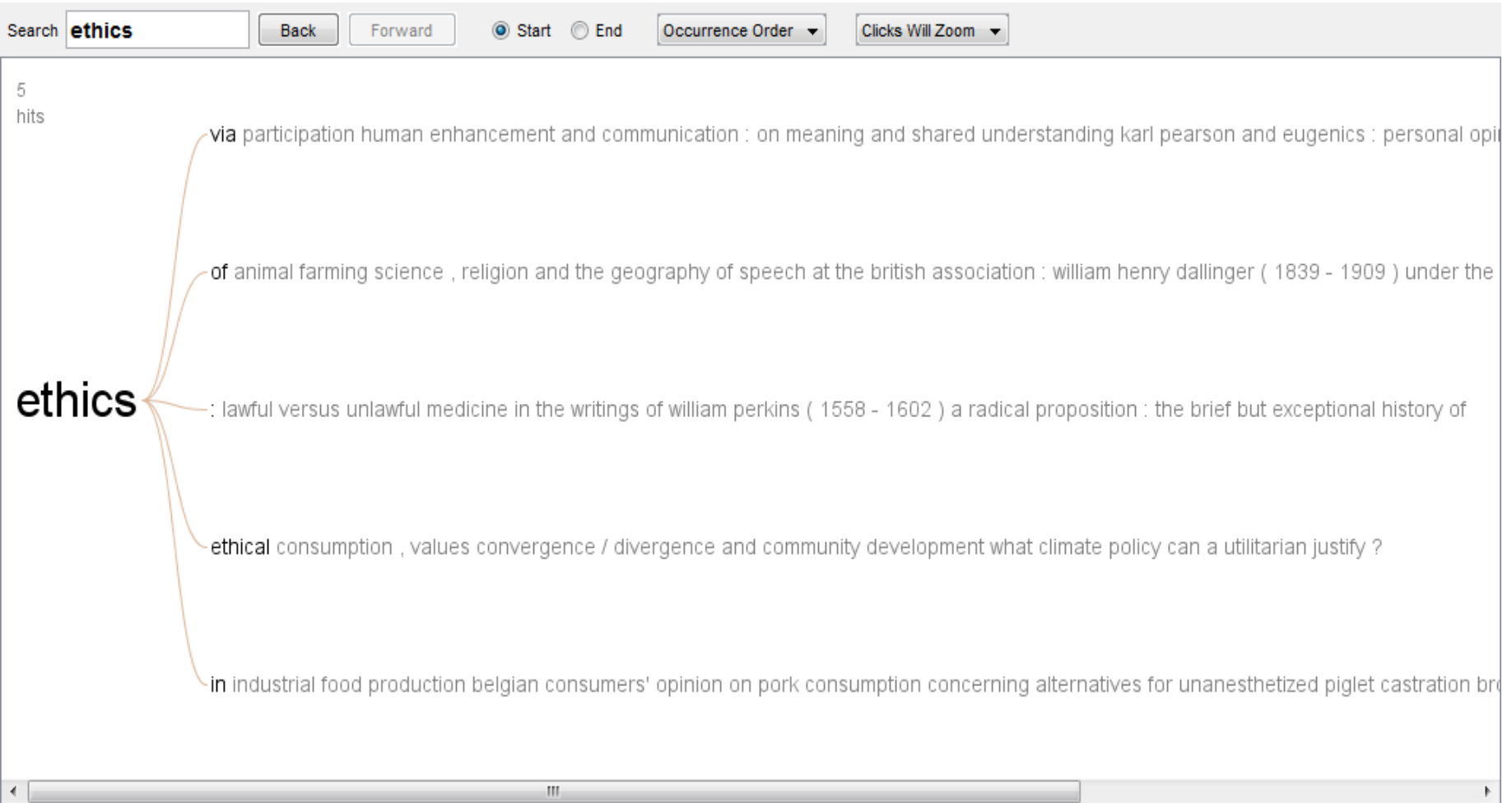| Organizations-Enhanced	records	% of 1323
UNIVERSITY OF CALIFORNIA SYSTEM	45	3.401
UNIVERSITY OF LONDON	40	3.023
UNIVERSITY OF OXFORD	27	2.041
CALIFORNIA STATE UNIVERSITY SYSTEM	21	1.587
CNRS	19	1.436
UNIVERSITE DE BORDEAUX PRES	18	1.361
UNIVERSITY OF CAMBRIDGE	18	1.361
MAX PLANCK SOCIETY	17	1.285
PENNSYLVANIA COMMONWEALTH SYSTEM OF HIGHER EDUCATION	17	1.285
UNIVERSITY COLLEGE LONDON	17	1.285
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS CSIC	16	1.209
DURHAM UNIVERSITY	16	1.209
UNIVERSITE BORDEAUX 1	16	1.209
ARIZONA STATE UNIVERSITY	15	1.134
UNIVERSITY OF WISCONSIN SYSTEM	15	1.134
AARHUS UNIVERSITY	14	1.058
GHENT UNIVERSITY	14	1.058
UNIVERSITY OF ABERDEEN	14	1.058
UNIVERSITY OF BRISTOL	14	1.058
UNIVERSITY OF SHEFFIELD	14	1.058

Country of Publication

Country of Authorship
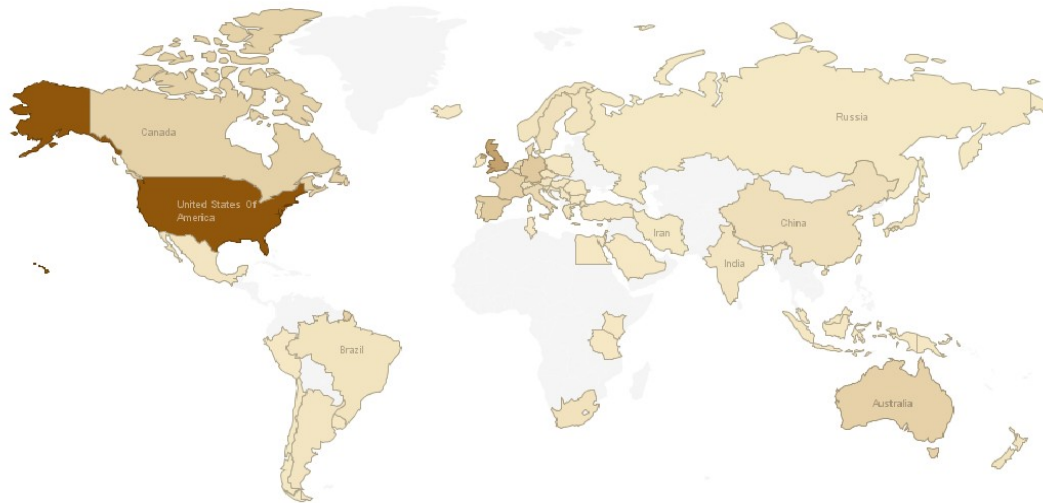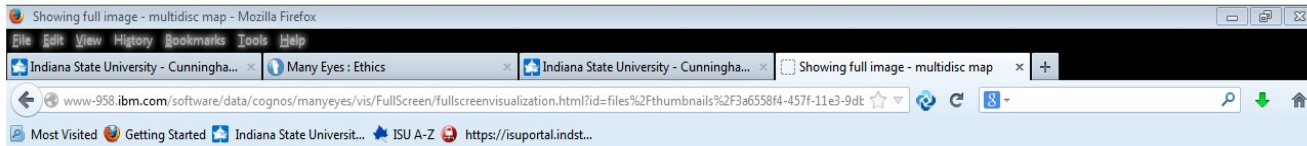
Many Eyes: [Word Tree Visualization](#)

Dataset: ***Philosophy of Science*** titles published 2013 (500 articles)

Search: **ethics**   [Back] [Forward]   ● Start ○ End   [Occurrence Order ▾]   [Clicks Will Zoom ▾]

5 hits

ethics
- **via** participation human enhancement and communication : on meaning and shared understanding karl pearson and eugenics : personal opi
- **of** animal farming science , religion and the geography of speech at the british association : william henry dallinger (1839 - 1909) under the
- **:** lawful versus unlawful medicine in the writings of william perkins (1558 - 1602) a radical proposition : the brief but exceptional history of
- **ethical** consumption , values convergence / divergence and community development what climate policy can a utilitarian justify ?
- **in** industrial food production belgian consumers' opinion on pork consumption concerning alternatives for unanesthetized piglet castration br

Many Eyes: [Tag Cloud Visualization](#)

Dataset: ***Philosophy of Science*** titles published 2013 (500 articles)

Many Eyes: Word Cloud Visualization

Dataset: ***Philosophy of Science*** titles published 2013 (500 articles)

Thank You!

Previous Work:

Page, Jessica R., Heather K. Moberly, Gregory K. Youngen and Barbara J. Hamel. (2013) "Exploring the
Veterinary Literature: A Bibliometric Methodology for Identifying Interdisciplinary and
Collaborative Publications." *College and Research Libraries.* Sept. 2013.

Youngen, Gregory K. (2011) "Multidisciplinary Journal Usage in Veterinary Medicine: Identifying the
Complementary Core." *Science & Technology Libraries*. Vol 30, no. 2 . p.194-201.

Gregory K. Youngen
Cunningham Memorial Library
Indiana State University
Terre Haute, IN

*Association of
Interdisciplinary
Studies
Miami University
November 7-9, 2013*

Indiana State University