



Current CrossRef Services and what's coming next

Rachael Lammey, Product Manager
KAMJE Workshop
Seoul, June 2014



What was the first service CrossRef offered?

- a. CrossRef Search
- b. DOI Reference Linking
- c. CrossMark
- d. CrossCheck
- e. FundRef





CROSSref



CROSSref



- **Cross-publisher** reference linking
- **Cross-publisher** Cited-by linking
- **Cross-publisher** metadata feeds to CMS Affiliates
- **Cross-publisher** originality screening
- **Cross-publisher** update service
- **Cross-publisher** funder identification
- **Cross-publisher** text and data-mining



A standard way of reporting funding sources for published scholarly research



Bone Marrow Research
Volume 2012 (2012), Article ID 406796, 18 pages
doi:10.1155/2012/406796

Review Article

Lineage Switching in Acute Leukemias: A Consequence of Stem Cell Plasticity?

Elisa Dorantes-Acosta^{1,2,3} and Rosana Pelayo²

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Acknowledgments

The authors apologize to investigators whose work could not be discussed due to space limitation. The authors thank the members of the Lymphopoiesis Lab from UIMEO, Dr. Aurora Medina, and Dr. Onofre Muñoz for critical input and academic support. R. Pelayo is recipient of funding from the National Council of Science and Technology, CONACYT (Grant CB-2010-01-152695) and the Mexican Institute for Social Security, IMSS (Grants 2008-785-044 and FIS/IMSS/852). E. Dorantes-Acosta is a scholarship holder from CONACYT.

- Abstract
- Full-Text PDF
- Full-Text HTML
- Full-Text ePUB
- Linked References
- How to Cite this Article



Why Don't Men Understand Women? Altered Neural Networks for Reading the Language of Male and Female Eyes

Boris Schiffer^{1,2*}, Christina Pawliczek^{2,5}, Bernhard W. Müller³, Elke R. Gizewski^{4,6}, Henrik Walter⁷

1 Division of Forensic Psychiatry, Department of Psychiatry, Psychotherapy and Preventive Medicine, LWL-University Hospital Bochum, Germany, **2** Institute of Forensic Psychiatry, University of Duisburg-Essen, Germany, **3** Department of Psychiatry and Psychotherapy, University of Duisburg-Essen, Germany, **4** Department of Diagnostic and Interventional Radiology and Neuroradiology, University Hospital Essen, Germany, **5** Department of Psychiatry, Psychotherapy, and Psychosomatics, University Hospital Aachen, RWTH Aachen, Germany, **6** Department of Neuroradiology, University Hospital Innsbruck, Austria, **7** Division of Mind and Brain Research, Department of Psychiatry and Psychotherapy, Charité Universitätsmedizin Berlin, Berlin, Germany

Abstract

Men are traditionally thought to have more problems in understanding women compared to understanding other men, though evidence supporting this assumption remains sparse. Recently, it has been shown, however, that men's problems in recognizing women's emotions could be linked to difficulties in extracting the relevant information from the eye region, which remain one of the richest sources of social information for the attribution of mental states to others. To determine possible differences in the neural correlates underlying emotion recognition from female, as compared to male eyes, a modified version of the Reading the Mind in the Eyes Test in combination with functional magnetic resonance imaging (fMRI) was applied to a sample of 22 participants. We found that men actually had twice as many problems in recognizing emotions from female as compared to male eyes, and that these problems were particularly associated with a lack of activation in limbic regions of the brain (including the hippocampus and the rostral anterior cingulate cortex). Moreover, men revealed heightened activation of the right amygdala to male stimuli regardless of condition (sex vs. emotion recognition). Thus, our findings highlight the function of the amygdala in the affective component of theory of mind (ToM) and in empathy, and provide further evidence that men are substantially less able to infer mental states expressed by women, which may be accompanied by sex-specific differences in amygdala activity.

Citation: Schiffer B, Pawliczek C, Müller BW, Gizewski ER, Walter H (2013) Why Don't Men Understand Women? Altered Neural Networks for Reading the Language of Male and Female Eyes. PLOS ONE 8(4): e60278. doi:10.1371/journal.pone.0060278

Editor: Frank Krueger, George Mason University/Keanow Institute for Advanced Study, United States of America

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Competing Interests: The authors have declared that no competing interests exist.

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Introduction

Sex differences in brain morphology and cognitive and affective

Recent studies have suggested that deficits in recognizing facial emotions could be linked to difficulties in extracting the relevant information from the eye region (including eye direction) [19].



Integrin $\alpha 1$ subunit is up-regulated in colorectal cancer

Salah Boudjadi^{1,2}, Julie C Carrier^{1,2} and Jean-François Beaulieu^{1*}

* Corresponding author: Jean-François Beaulieu Jean-Francois.Beaulieu@USherbrooke.ca

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For all author emails, please [log on](#).

Biomarker Research 2013, **1**:16 doi:10.1186/2050-7771-1-16

The electronic version of this article is the complete one and can be found online at:

<http://www.biomedcentral.com/content/1/1/16>

Received: 11 December 2012

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Abstract

Acknowledgements

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The work was supported by the Canadian Institute of Health Research Grant MOP-97836 (to JFB). JFB is the recipient of the Canadian Research Chair in Intestinal Physiopathology. JFB and JCC are members of the Fonds de la Recherche en Santé du Québec-funded Centre de Recherche Clinique Étienne-Le Bel of the Centre Hospitalier Universitaire de Sherbrooke.



```
<fn fn-type="financial-disclosure">  
<p>This work was supported in part by NIH  
grant R01 GM094800B to G.J.J., a gift to Caltech  
from the Gordon and Betty Moore Foundation, and  
a stipend from the Bayerische Forschungsstiftung  
to M.P. The funders had no role in study design,  
data collection and analysis, decision to publish, or  
preparation of the manuscript.</p>
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</article>
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- National Institutes of Health
 - NIH? N.I.H.? National Institute of Health?
 - Abbreviations, misspellings, translations...



Why does this matter?

- Funding bodies cannot easily track the published output of funding
- Publishers cannot easily report which articles result from research supported by specific funders or grants
- Institutions cannot easily link funding received to published output
- Lack of standard metadata for funding sources makes it difficult to analyse or data mine



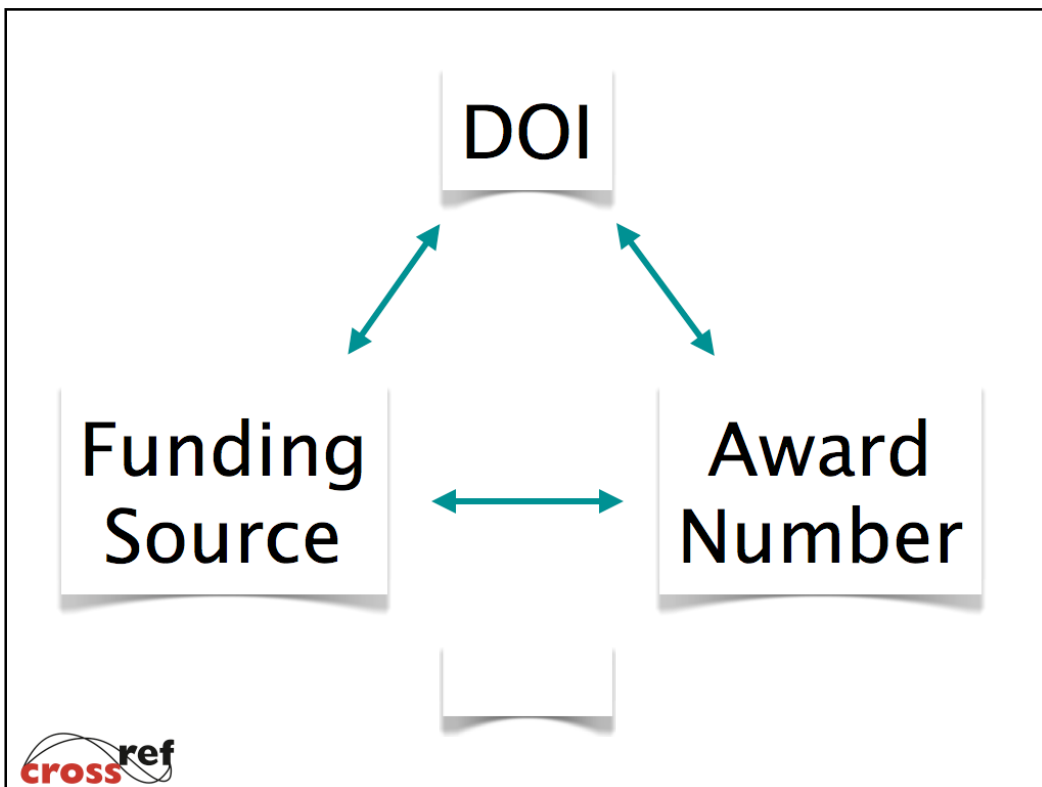
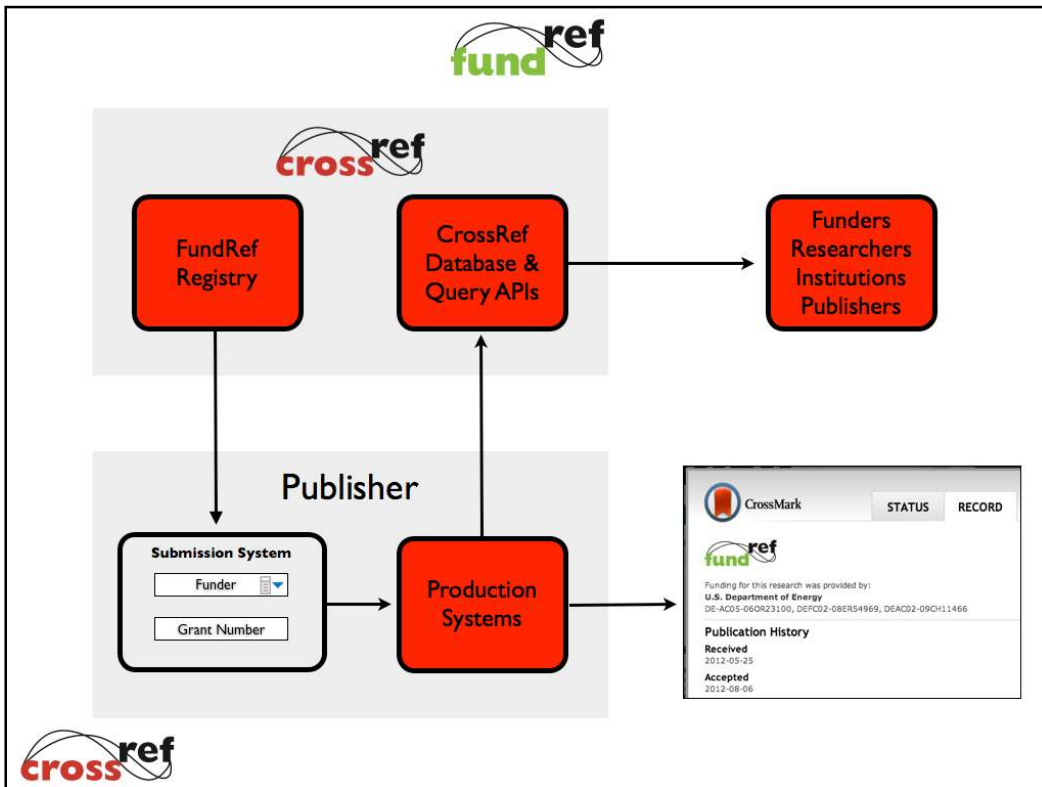
Funders

Established award systems and research management processes
Relationship with researchers funded by agencies

Publishers

Established publishing and peer-review systems
Relationship with authors submitting manuscripts





Look up funding data

Metadata Search  Sign in with ORCID

fundref^{beta}
search

[Help! - Example Queries](#)



<http://search.crossref.org/fundref>

fundref^{beta}
search

- National Institutes of Health United States
- NIHR Health Services and Delivery Research (HS&DR) programme United Kingdom
- NIH Office of the Director United States
- National Institute of Mental Health United States
- NIH Blueprint for Neuroscience Research United States
- NIH Clinical Center United States
- National Institute for Health Research Trainees Coordinating Centre United Kingdom



fundref search Q Yonsei University Metadata Search Sign in with ORCID

YONSEI UNIVERSITY SORT BY: **RELEVANCE** PUBLICATION YEAR [↓](#) DOWNLOAD AS CSV PAGE 1 OF 4 RESULTS

TYPE

Journal Article (4)

YEAR

2014 (3)

2013 (1)

OA STATUS

DOAJ (4)

PUBLICATION

BioMed Research International (2)

Evidence-Based Complementary and Alternative Medicine (1)

International Journal of Endocrinology (1)

CATEGORY

Complementary and alternative medicine (1)

PUBLISHER

Hindawi Publishing Corporation (4)

DOAJ Mitochondrial DNA Copy Number in Peripheral Blood Is Independently Associated with Visceral Fat Accumulation in Healthy Young Adults

Journal Article published 2014 in International Journal of Endocrinology volume 2014 on pages 1 to 7

Research funded by Yonsei University (6-2013-0021, NRF-2013M3A9B6046413)

Authors: Jee-Yon Lee, Duk-Chul Lee, Jee-Aee Im, Ji-Won Lee

Other IDs: 586017, 586017

<http://dx.doi.org/10.1155/2014/586017> [Actions](#)

DOAJ Association between Risk Factors for Vascular Dementia and Adiponectin

Journal Article published 2014 in BioMed Research International volume 2014 on pages 1 to 13

Research funded by Yonsei University (2012-0005440)

Authors: Juhyun Song, Won Taek Lee, Kyung Ah Park, Jong Eun Lee

Other IDs: 261672, 261672

<http://dx.doi.org/10.1155/2014/261672> [Actions](#)

Participating Publishers

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ACSESS
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Elsevier
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Grupo Comunicar
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International Union of Crystallography
Internet Medical Publishing
IOP Publishing
Journal of Humanity
Journal of Rehabilitation Research & Development
Just Medical Media, Ltd.
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 - If **this** instance is being maintained by the publisher
 - Where the publisher-maintained version is
 - Other important publication record information



Journal of Cerebrovascular and Endovascular Neurosurgery
ISSN 2234-8852

Original Article

Intraoperative Microsurgical Decompression of the Cervical Spinal Cord in Patients with Cervical Myelopathy

Sung-Kyun Hwang

ORCID
Sung-Kyun Hwang
<http://orcid.org/0000-0001-5400-7126>

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Journal of Cerebrovascular and Endovascular Neurosurgery
Volume 16 | Issue 1 | 5-10
November 2013
January 2014
February 2014

Correspondence to Sung-Kyun Hwang
Department of Neurosurgery, Ewha Women's University Hospital, 911-1 Mok-dong, Yongsu-gu, Seoul 158-710, Korea
E-mail: hkwang@ewha.ac.kr
ORCID: <http://orcid.org/0000-0001-5400-7126>

Results :
The mean age was 60.7 (range 50-72) years. The mean preoperative Japanese Orthopedic Association (JOA) score was 10.7 (range 7-14). Seven patients (11.2%) died of respiratory failure (four



The screenshot shows a CrossMark notification window with the following content:

- CrossMark** logo and navigation tabs: **STATUS** and **RECORD**.
- Notification: **Updates are available for this document.**
- Correction dated 2006-12-1:**
<http://dx.doi.org/10.1107/S0907444906044246>
- This document is maintained by the publisher.
- Document:** Application of the use of high-throughput technologies to the de...
- Publication:** Acta Crystallographica Section D Biological Crystallography
- Published:** 1 October, 2006
- CrossRef DOI Link to Publisher-Maintained copy:**
<http://dx.doi.org/10.1107/S0907444906030915>
- CrossMark Policy:** International Union of Crystallography (IUCr)
- Link: [Learn more about the CrossMark System »](#)

CrossRef logo is visible in the bottom left corner of the slide.

CrossMark
 ← click for updates

June 23rd totals:

- 837,373 deposits
- 11,173 status updates
- 2,456,397 assertions
- 43 member publishers

CrossRef logo is visible in the bottom left corner of the slide.

PLOS Tech

← Feedback Wanted: Publishers & Data Access

Getting to CrossMark

By [Molly Sharp](#) and [Kevin Brandt](#)
Posted: March 31, 2014

This week, we launched our participation in CrossRef's CrossMark program. It's an exciting step for PLOS, and getting there was a learning experience we hope you'll find interesting.

The Program

[CrossMark](#) is a service of [CrossRef](#) that is gaining traction among scholarly publishers, with more than 30 publishers to date, and nearly half a million scholarly documents. The purpose of the CrossMark logo appearing on article pages is to give researchers a consistent way to know the status of any article, from any participating publisher. When someone clicks the CrossMark logo from either the online version of the article, or the PDF, they see a popup like this one. It indicates that either the article is up to date, or that updates are available.

crossref

Who?

AIP Physics of Plasmas

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Orientation phenon collisional excitatio and plasmon coup

Home > Business & Management > Organizational Behavior > Journal of Organizational Behavior > Early View > Abstract

F1000Research

Articles For Authors

Presentation of a report of a patent
<http://f1000r.es/xx>

John Svigos^{1,2}, Sanjeev Khuri

Grant information: The autho

Views 15 PDF Down

Abstract

PROCEEDINGS OF THE ROYAL SOCIETY OF BIOLOGICAL SCIENCES

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with the circadian patterns of AMI onset, serum triglyceride levels had the most prominent association with the circadian patterns of AMI onset. Patients with triglyceride ≥ 150 mg/dL on admission had only one morning peak in the circadian pattern of AMI onset during weekdays, with no peaks detected on weekends, whereas all other subgroups had two peaks throughout the week.

Conclusions The circadian pattern of AMI onset was characterised by bimodality. Notably, several lifestyle-related factors, particularly serum triglyceride levels, had a strong relation with the circadian pattern of AMI onset.

Trial registration number UMIN00004575.

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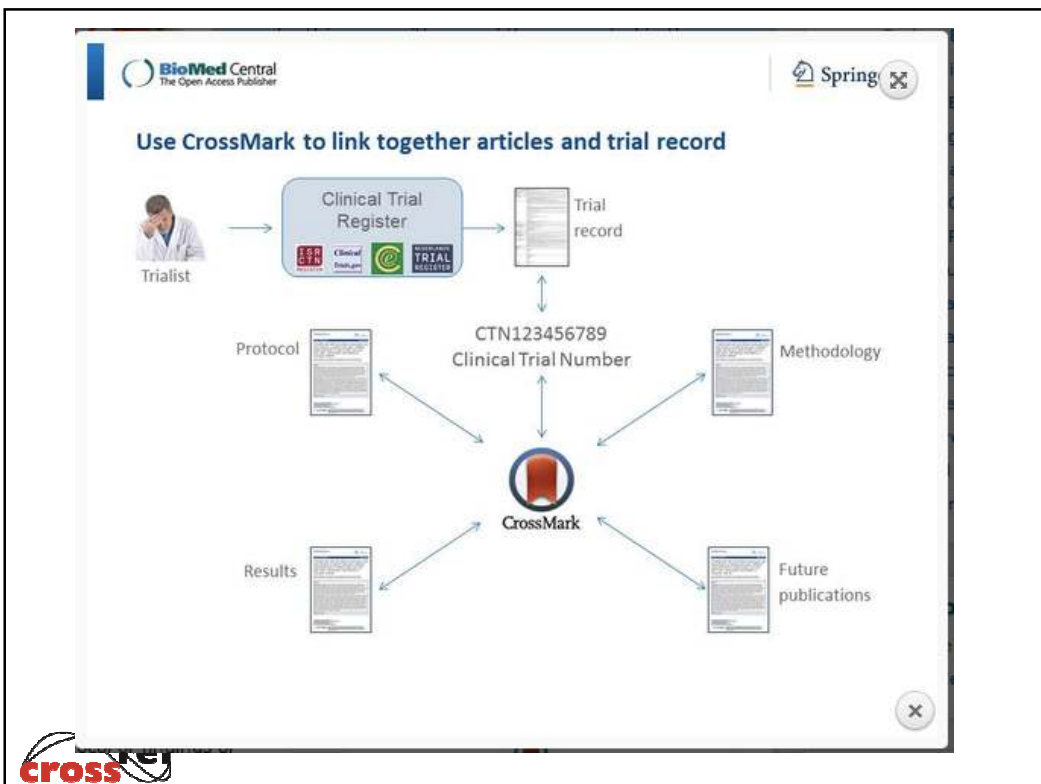
crossref



Linked Clinical Trials

AKA “Threaded Publications”

<http://blogs.biomedcentral.com/bmcblog/2014/01/31/threaded-publications-one-step-closer/>





http://dx.doi.org/10.5555/12345678


Abstract



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 **CrossMark** **STATUS** **RECORD**


 Funding for this research was provided by:
National Science Foundation

 ORCID:
<http://orcid.org/0000-0002-1825-0097>

 Clinical Trial Links: 
ISRCTN68329593
[View other papers related to this trial](#)

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Abstract



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 **CrossMark** **STATUS** **RECORD**

 Funding for this research was provided by:
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<http://orcid.org/0000-0002-1825-0097>

 Clinical Trial Links: 
ISRCTN68329593
Other papers related to this trial:
Blood Pressure and Global Outcomes in the International Stroke Trial
Journal Article published May 2005 in Stroke volume 36 issue 5 pages 1013-1020
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Clinical Trial
Stroke volume 36 issue 5 pages 1013-1020
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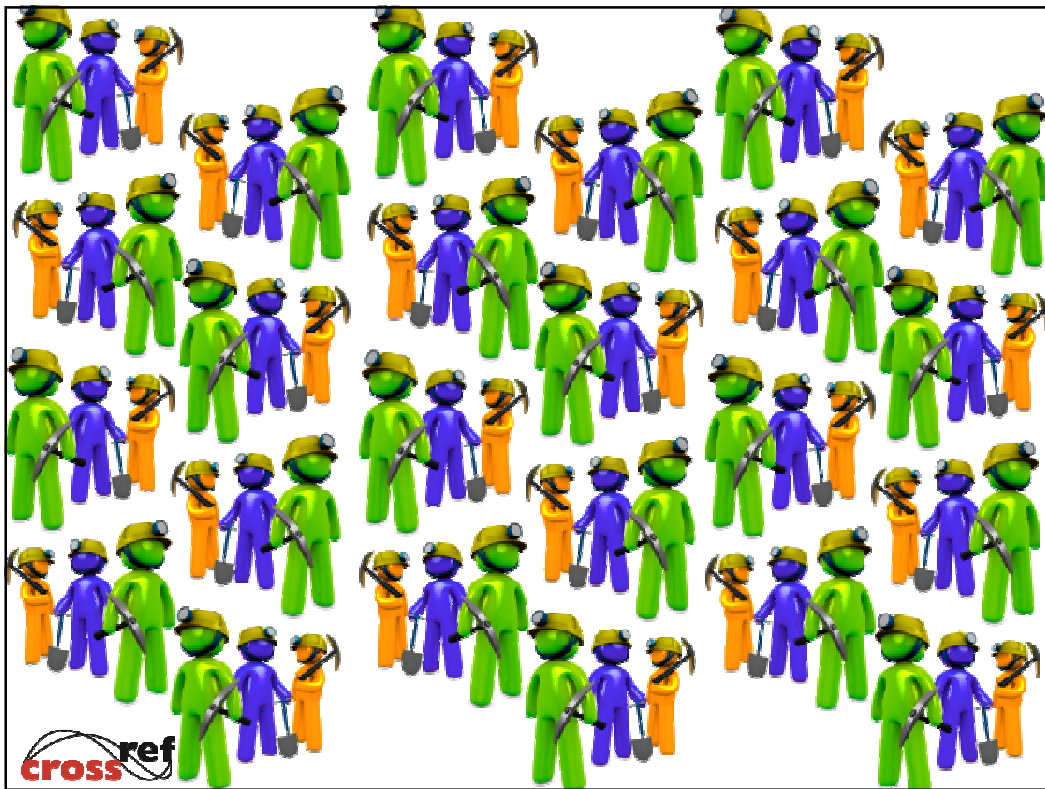
Trial of ABC and Pivotal using with an automated based on course
Journal Article published Jun 1999 in Clinical Otolaryngology volume 24 issue 3
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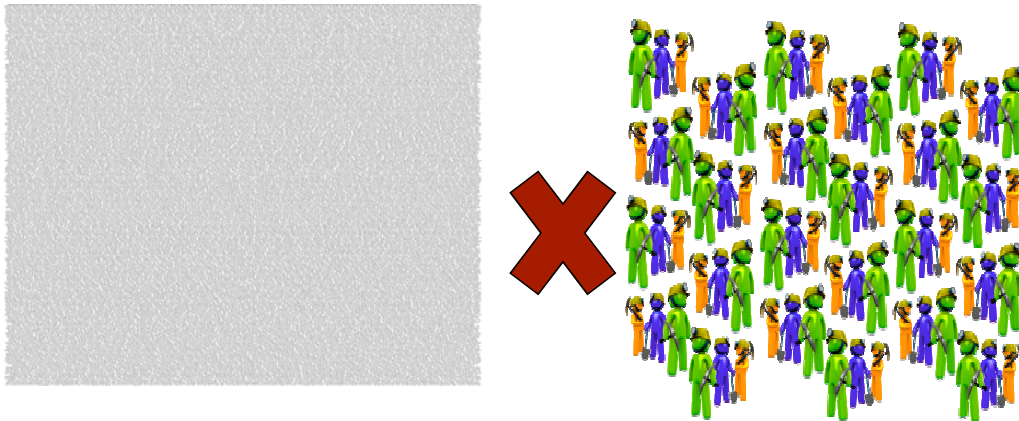


crossref

Text and Data Mining



Bilateral agreements don't scale



- All parties would benefit from support of standard APIs and data representations in order to enable TDM across both open access and subscription-based publishers.
- Researchers find it impractical to negotiate multiple bilateral agreements with hundreds of subscription-based publishers in order to authorize TDM of subscribed content.
- Subscription-based publishers find it impractical to negotiate multiple bilateral agreements with thousands of researchers and institutions in order to authorize TDM of subscribed content.

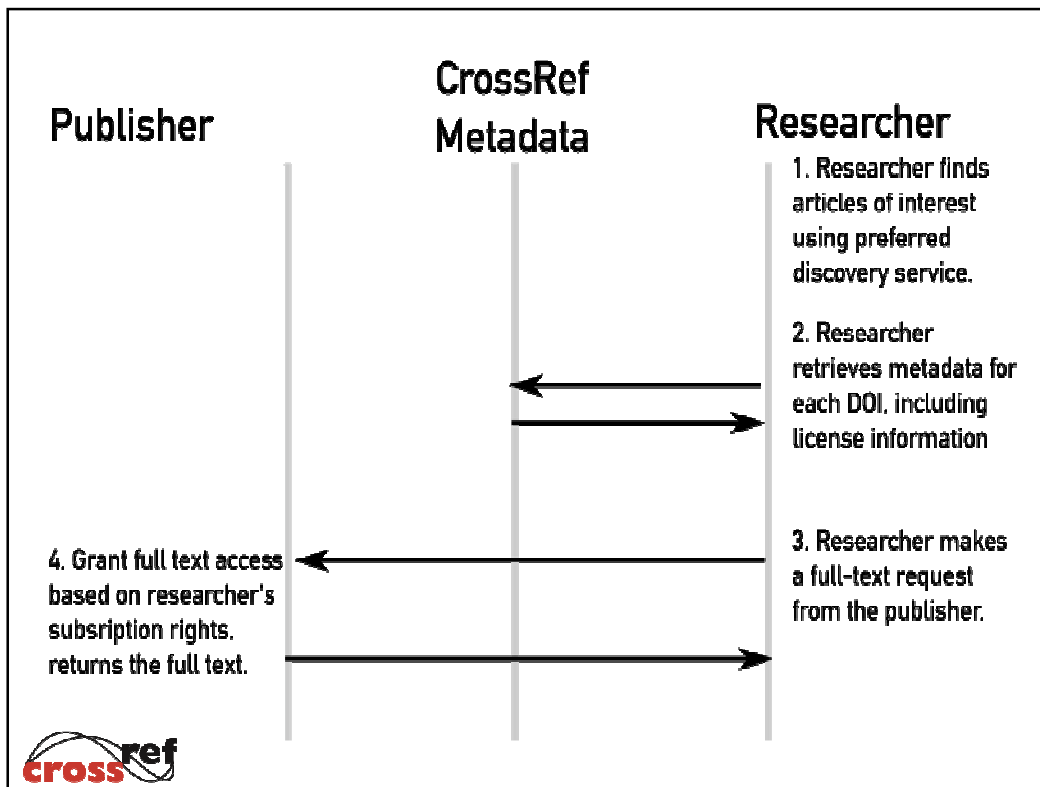


The Proposed Solution



- A Common API, enabled by the provision of some extra information:
 - License Links
 - Full-text Links





CrossRef Metadata Search

CrossRef beta
metadata search

Q 0000-0002-1825-0097 API Help Sign in with ORCID

TYPE
 Journal Article (2)

YEAR
 2008 (1)
 2013 (1)

OA STATUS
 Other (2)

PUBLICATION
 Annals Psychoceramics B (1)
 Annals of Psychoceramics B (1)
 Journal of Psychoceramics (1)

CATEGORY
 FINDER NAME
 Basic Energy Sciences, Office of Science, U.S. Department of Energy (2)
 National Science Foundation (2)

SOURCE
 CrossRef (2)

PAGE 1 OF 2 RESULTS

Showing results for ORCID matching 0000-0002-1825-0097

Journal Article **Toward a Unified Theory of High-Energy Metaphysics: Silly String Theory**
 Published 14 Aug 2008 in *Journal of Psychoceramics* volume 5 issue 11 on pages 1 to 3
 Research funded by Basic Energy Sciences, Office of Science, U.S. Department of Energy (DE-SC0001091) | National Science Foundation (CHE-1152342)
 Authors: Josiah Carberry
<http://dx.doi.org/10.5555/12345678> More

Journal Article **The Global State of Psychoceramics Research**
 Published 3 Feb 2013 in *Annals of Psychoceramics B* volume 2013 on pages 1 to 8
 Research funded by Basic Energy Sciences, Office of Science, U.S. Department of Energy (high-energy-metaphysics-SC0001091) | National Science Foundation (psychoceramics-1152342)
 Authors: Josiah Carberry
<http://dx.doi.org/10.5555/515151> More

PAGE 1 OF 1 RESULTS

specific

CrossRef <http://www.search.labs.crossref.org>

The screenshot shows the CrossRef metadata search page for 'Josiah Carberry'. A modal dialog box titled 'Citing "Correction and Clarifications"' is open, displaying the following citation string:

```
articles(carberry_2012, title(correction and clarifications), volume(9), issue(024
2662), url=http://dx.doi.org/10.5555/20120903084, doi=http://dx.doi.org/10.5555/20120903084, number
+111, journal=Journal of Psychoceramics, publisher=CrossRef, author=Carberry, Jo
siah, year=2012, month=Dec, pages=1-3)
```

The background search results are partially visible, showing entries such as 'Correction and Clarifications', 'Correction: Developing Thin Clients Using Amphibious Epistemologies', 'A Methodology for the Emulation of Architecture', 'The Memory Bus Considered Harmful', and 'Bulk and Surface Plasmons in Artificially Structured Materials'.

This screenshot shows the same CrossRef search results for 'Josiah Carberry' but with the modal dialog closed. The search results are sorted by 'RELEVANCE PUBLICATION YEAR' and show the following entries:

- Correction and Clarifications**
Example Item published 29 Dec 2012 in Journal of Psychoceramics volume 9 issue 11 on pages 1 to 3
Author: Josiah Carberry
- Correction: Developing Thin Clients Using Amphibious Epistemologies**
Example Item published 20 Feb 2012 in Journal of Psychoceramics volume 9 issue 11 on pages 1 to 3
Author: Josiah Carberry
- The Impact of Interactive Epistemologies on Cryptography**
Example Item published 11 Oct 2011 in Journal of Psychoceramics volume 9 issue 11 on pages 1 to 3
Author: Josiah Carberry
- Deconstructing Write-Back Caches**
Example Item published 11 Oct 2012 in Journal of Psychoceramics volume 9 issue 11 on pages 1 to 3
Author: Josiah Carberry
- Developing Thin Clients Using Amphibious Epistemologies**
Example Item published 20 Feb 2012 in Journal of Psychoceramics volume 9 issue 11 on pages 1 to 3
Author: Josiah Carberry
- A Methodology for the Emulation of Architecture**
Example Item published 20 Feb 2012 in Journal of Psychoceramics volume 9 issue 11 on pages 1 to 3
Author: Josiah Carberry
- The Memory Bus Considered Harmful**
Example Item published 11 Oct 2012 in Journal of Psychoceramics volume 9 issue 11 on pages 1 to 3
Author: Josiah Carberry
- Bulk and Surface Plasmons in Artificially Structured Materials**
Journal Article published in IEEE Transactions on Plasma Science volume 18 issue 4 on pages 664 to 670
Author: James L. Gray, Josiah J. Carberry

The left sidebar contains filters for 'TYPE', 'YEAR', 'SA', 'PUBLICATION', and 'CATEGORY'.

ALM




Why?



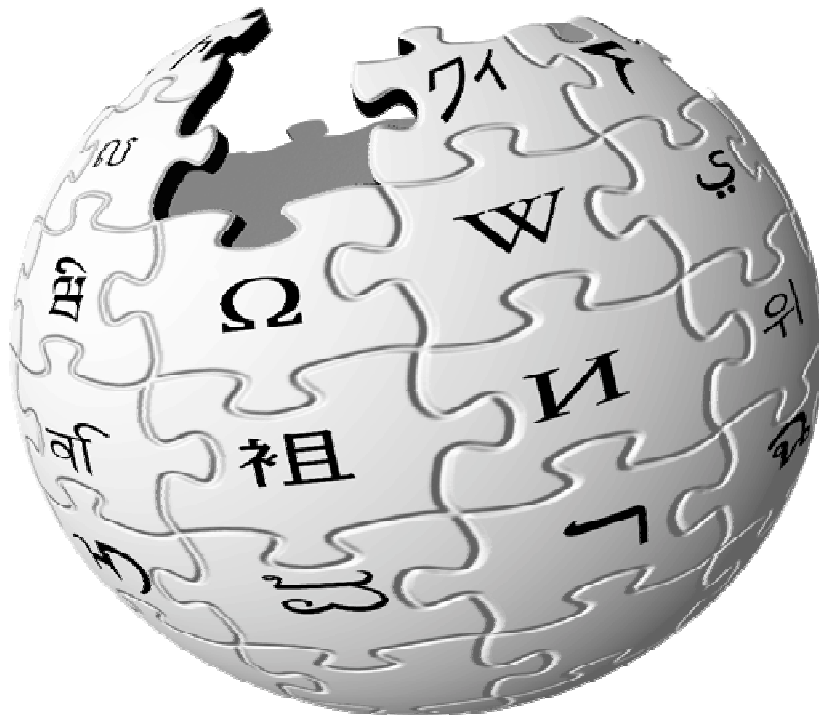
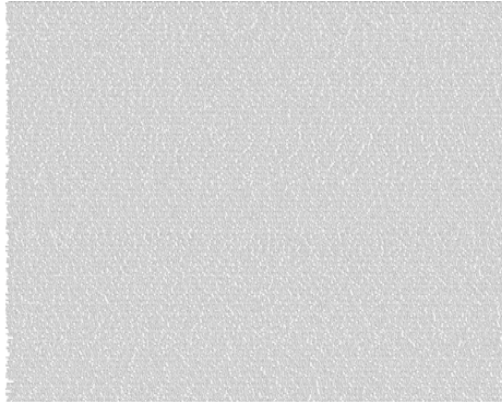
Many of our members are

(or are about to)

- Install the **same** software
- To collect the **same** data  smells like infrastructure
- From the **same** places
- To provide some added value for their users



Bilateral agreements don't scale



DOI Referrers (Oct 2012 - June 2013)

- Wikipedia is 8th largest referrer of DOIs
 - After nih.gov, webofknowledge.com, serialsolutions.com, sciencedirect.com, scopus.com, etc.
 - 25-30K referrals a day
 - Increasing by about 2K a day during 8 month period
 - Top 10 subdomains are en, en.m, de, ja, es, fr, ru, zh, it, pt



What we have

- 2009, PLOS releases code
- April 2013, CrossRef contracts Cottage Labs to install instance, load with 3 years worth of DOIs
- System falls over
- CrossRef works with Cottage Labs, PLOS to address scalability issues.
- Still falls over.
- More scalability work with Cottage Labs and PLOS.
- System OK, load 2014 data, work backwards (Dec 2013)
- Announce (Feb 24th, 2014)
- Three more releases (PLOS) to address scalability issues.
- CrossRef upgrades to 3.0 release (yesterday)



Scholarly Pingback



Thank you!
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<http://www.crossref.org>
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