Statistics of Open Access Journals

Franco Toni – Biblioteca dell’Istituto Superiore di Sanità

Conference Institutional Archives for Research: Experiences and Projects in Open Access

Istituto Superiore di Sanità
Rome, 30 November – 1 December 2006
General frame

- Until few years ago e-journals statistical data were collected in an heterogeneous way and following customized criteria
- Results were rough, sectorial, not comparable or addable
- A great change in the last years due to several factors:
  - Exponential growth of references
  - Librarians need new tools in order to better manage use of resources
  - Great relevance of statistics in measuring and evaluating libraries performances
- Use of standards allows to obtain uniform and reliable results
Standards

- ISO Standards concerning statistics and performance indicators:
    - Principal goal is “to ensure conformity for those statistical measures that are frequently used by libraries”
    - Divided in 6 parts
    - Part 3 “terms and definitions” contributes to exactly identify and define terminology and definitions for each used item
    - Annex A “Measuring the use of electronic library services”
Standards

  - Now under revision to incorporate the content of TR 20983 (2003) with 15 new indicators on electronic library services
  - Indicators and data sets analyze not only quantity but also quality of provided services
  - The list of indicators is “best seen as a menu of possible performance indicators that could be used in a range of library settings”
  - Each library “will need to decide which indicators are most appropriate to its particular situation”
The COUNTER Project

- COUNTER = Counting Online Usage of Networked Electronic Resources (launched and become operating in 2002)
- A successful example of cooperation between producers and users of information and documentation
- The aim is to achieve clarity, uniformity and simplicity in collecting and showing data
- First release of the Code of Practice:
  - Two reports for e-journals
    - Journal Report 1 – Number of successful full-text article request by month and journals
    - Journal Report 2 – Turnaways by month and journal
  - Three reports for the databases
  - No reports for other supports. E-books added only in a specific Code published last Spring
COUNTER evolution

- Rapidly become a standard *de facto*
- More than 50 publisher are now (end of October 2006) COUNTER compliant.
- All the most important such as Elsevier, Blackwell, Wiley, Springer, NPG, etc. are included
- They guarantee to produce at least one of the COUNTER report (47 produce JR1)
- At the beginning of 2006 was published the release 2 of the Code of Practice with new important features such as the possibility to download data in excel or excel compliant (CSV) format
Standards

- NISO initiative called SUSHI (Standardized Usage Statistics Harvesting Initiative) whose aim is:
  - “to develop a standard data container for moving Project COUNTER usage statistics into a digital repository. Currently COUNTER reports are received in Excel spreadsheets with data from each individual service provider in separate files. The short-term solution will be the design of an automated request and response protocol based on a web services model for downloading XML versions of the data into an electronic repository”
Open Access Journals and Statistics

- An OA resource is hardly compatible with a gathering of statistical data
- Producers and distributors of OA contents haven’t the need to recognize the complete track of accesses on their servers
- Among the 4 main access sources to OA e-journals – DOAJ, PubMed Central, Plos and BioMed Central – only this last provides users with data about accesses and downloads
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New F1000 Biology Faculty
Faculty of 1000 Biology has launched a new pharmacology & drug discovery faculty.
Read more

Research highlights
Genomics of shell architecture
BMC Biology 2006, 4:40
A novel expression analysis of genes involved in the formation and patterning of the mollusk shell reveals the unexpected complexity of molecular mechanisms governing the formation and pigmentation of mineralized structures.

Ultrasound catheters safer, quicker, easier
Critical Care 2006, 10(R):161-2
Using real-time ultrasound images to guide catheterization gave a 100% success rate in 450 patients, with reduced incidence of blood stream infection and other complications compared to the standard landmark method.

Anti-inflammatory effects of glucosamine
Arthritis Research & Therapy 2006, 8(1):73
High levels of exogenous glucosamine do not affect the expression of genes involved in cartilage matrix biosynthesis in articular chondrocytes, but act as a potent inhibitor of IL-1beta.

Latest articles
Clinical features and hormonal profiles of cloprostenol-induced early abortions in heifers monitored by ultrasonography
Multilocus sequence typing method for identification and genotypic classification of pathogenic Leptospira species
Predictors of gallstone composition in 1025 symptomatic gallstones from Northern Germany
Distinct cellular responses differentiating alcohol- and hepatitis C virus-induced liver cirrhosis
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Clinical features and hormonal profiles of cloprostenol-induced early abortions in heifers monitored by ultrasonography (23 Nov 2006)

Multilocus sequence typing method for identification and genotypic classification of pathogenic Leptospira species (23 Nov 2006)

Predictors of gallstone composition in 1025 symptomatic gallstones from Northern Germany (23 Nov 2006)

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Distinct cellular responses differentiating alcohol- and hepatitis C virus-induced liver cirrhosis (22 Nov 2006)

A fungal phylogeny based on 42 complete genomes derived from supergroup and combined gene analysis (22 Nov 2006)

Genomics of shell architecture
BMC Biology 2006, 4:40
A novel expression analysis of genes involved in the formation and patterning of the mollusk shell reveals the unexpected complexity of molecular mechanisms governing the formation and pigmentation of mineralized structures.

Ultrasound catheters safer, quicker, easier
Critical Care 2006, 10:R162
Using real-time ultrasound images to guide catheterization gave a 100% success rate in 450 patients, with reduced incidence of blood stream infection and other complications compared to the standard landmark method.

Anti-inflammatory effects of glucosamine
Arthritis Research & Therapy 2006, 8:R173
High levels of exogenous glucosamine do not affect the expression of genes involved in cartilage matrix biosynthesis in articular chondrocytes, but act as a potent inhibitor of IL-1beta.
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## Institution Usage Reports

### Welcome
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You searched for: gennaio 2006 to novembre 2005
Subscribed Product(s): BMC Open Access Journals

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Institution Usage Reports

Welcome Biblioteca Istituto Superiore di Sanità - Roma

Report Criteria

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COUNTER report  ▶  Printable version  ▶  Email  ▶  Refine report criteria  ▶

November 2006

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Breakdown by Journal

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Breakdown by Journal

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Breakdown by Journal
BMC in the Istituto Superiore di Sanità

- 2005 1500 downloads
- 2006 4200 downloads (10 months)
- Negative influence of BMC interface on statistical data
Welcome to BMC Cancer

BMC Cancer is an open access journal publishing original peer-reviewed research articles in all aspects of research relating to cancer, including molecular biology, genetics, pathophysiology, epidemiology, clinical reports, and controlled trials. BMC Cancer (ISSN 1471-2407) is indexed/covered/reviewed by PubMed, MEDLINE, CAS, Scopus, EMBASE, Thomson Scientific (ISI), and Google Scholar.

Research highlights

Fatigue, psychological distress and breast cancer

BMC Cancer 2006, 6:240
A high percentage of breast cancer patients suffer sustained fatigue following treatment, and in the majority of cases, sustained fatigue is accompanied by a significant psychological disorder.

Extracellular ATP involved in glioma growth

BMC Cancer 2006, 6:226
Glioma tumor size and mitotic index are reduced in rats injected with the enzyme apyrase, suggesting that extracellular ATP and ecto-nucleotidases are associated with glioma growth.

Fractionated Stereotactic Radiotherapy for management of ependymomas

BMC Cancer 2006, 6:222
Fractionated stereotactic radiotherapy is shown to be an effective and well-tolerated treatment for ependymomas and results in an overall 5 year survival rate of 77%.

Bcl-XL more powerful than Bcl-2

BMC Cancer 2006, 6:213
Bcl-XL is 10 times more potent than Bcl-2 at inhibiting apoptosis in the human breast cancer cell line MCF-7, related is not the difference in the induction of caspase-dependent apoptosis by these two proteins.
Fatigue states after cancer treatment occur both in association with, and independent of, mood disorder: a longitudinal study

David Goldstein1, Barbara Bennett1, Michael Friedlander1, Tracey Davenport2, Ian Hickie2 and Andrew Lloyd3

1Department of Medical Oncology, Prince of Wales Hospital, Sydney, Australia
2The Brain and Mind Research Institute, University of Sydney, Australia
3School of Medical Sciences, University of New South Wales, Sydney, Australia


The electronic version of this article is the complete one and can be found online at: http://www.biomedcentral.com/1471-2407/6/240

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Abstract

Background

Persistent fatigue is recognised as one of the most common, ongoing symptoms reported by patients following cancer treatment and may have profound effects on the quality of life. However, recent cross-sectional studies also highlight the close relationship between cancer related fatigue (CRF) and diagnoses of depression or anxiety disorder. There is currently limited information about the relationships between these conditions over time. We sought to examine the longitudinal relationships between fatigue and mood disorder in women treated with adjuvant therapy for early stage breast cancer.

Methods
2 possible ways to obtain statistics about references or access on a web site:
- Starting from the log files of the user’s server
- Using registrations on the receiver server

Case 1 scant useful: we can monitor only the output address and if the receiver is an aggregator or a distributor we cannot recognize the final destination

Case 2: only BMC performs this task
The IP address

- The only way to reconstruct for a certainty the user’s pathway is through the recognition of IP address by the receiver server.
- The user identification through IP is firstly a need of commercial publishers, and not of OA providers.
- OA providers main goal is to measure how many times a specific resource is accessed and not who is consulting it.
- Distributors (i.e. Plos and PMC) are be able in computing data in order to define indicators such as impact factor or the average of accesses on a title but not about quantity and type of researches and downloads institution by institution.
- DOAJ has recently introduced the possibility to search at article level on 1/3 of its 2400 journals. The DOAJ server logs the track of user’s pathway and these records could be used also by the institutions that generate the requests in order to obtain statistical data.
Some final considerations

- Measurement and evaluation of library performances and services for users are become a basic item in order to define strategies and policy of acquisitions.
- Statistics hold an increasingly value allowing a prompt check of how and how much a resource is used.
- The lack of statistical data about OA e-journals deprives librarians of an essential tool for the evaluation of all products available on the net
- Gunther Eisenbach (G. Eisenbach, Citation advantage of open access article, PLoS Biology, 4,5, May 2006, e157) demonstrates that OA articles are more cited and read compared with non open published on the same journal (PNAS in this case)
- It should be very important to verify the effective use of OA journals compared with the commercials in the same field or discipline
- If the results of this analysis were in favour of OA titles, this would become a relevant factor for promoting Open Access initiative and for a deep reduction of library expenses for journals
Thank you for your attention

ftoni@iss.it