

Open access at the Wellcome Trust: 5-years on

Berlin 8 Open Access Conference, Beijing, China

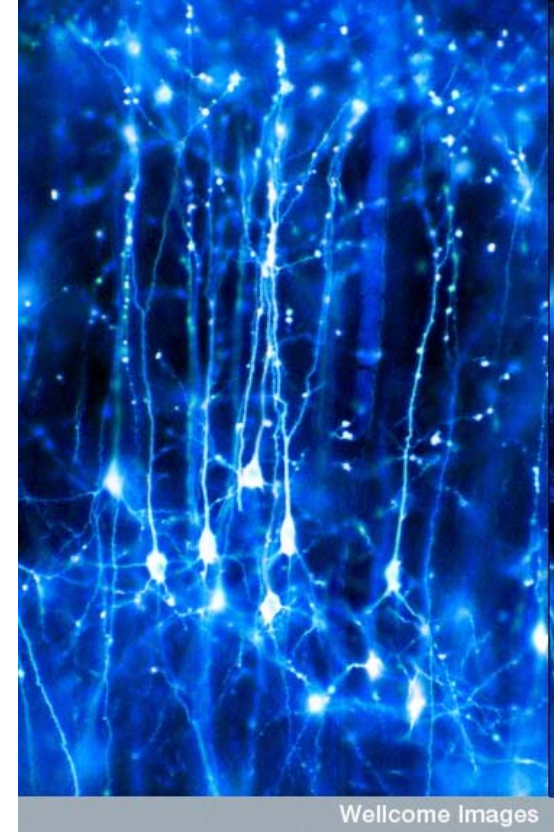
Monday, 25th October, 2010

Robert Kiley, Head Digital Services, Wellcome Library, Wellcome Trust
(r.kiley@wellcome.ac.uk)



Overview

- Review progress over the last 5 years
- Consider what needs to change if we are to realise the ambition of providing open access to all funded research
- Discuss aspirations to transform UKPMC to Europe PMC
- Consider whether funders, like the Wellcome, can do anything more to push the OA agenda



October 2005 – OA policy

trust UK WEB ARCHIVE

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OPEN ACCESS A MUST FOR WELLCOME TRUST RESEARCHERS

Next week (October) the Wellcome Trust becomes the first scientific research funder to insist that papers emanating from its grant awards are placed in an open access repository.

From the 1st October it will become a condition of funding, that papers will have to be posted on PubMed Central (PMC)– the free-to access, life sciences archive developed by the National Institutes of Health – and made accessible within 6 months of publication. To facilitate this, the Wellcome Trust has – with the help of NIH – established a manuscript submission system, through which papers accepted for publication in a peer-reviewed journal can be deposited in PMC.

From the 1st October next year all existing Trust grant holders will have to deposit future papers into PubMed Central. This delay will allow existing grant holders time to adjust to the new policy and let us know what problems – if any – they may experience, affording us time to overcome them. During this time the Trust, working in partnership with other UK life sciences funders, plans to establish a UK version of PubMed Central – UKPMC.

This latest move comes as part of a drive from the UK's biggest medical research charity to push forward open access publication of scientific literature, making findings freely available to those who want to see them.

The Wellcome Trust is the UK's biggest non-governmental funder of biomedical research, spending £400 million a year. The work it funds results in around 3,500 papers being published annually.

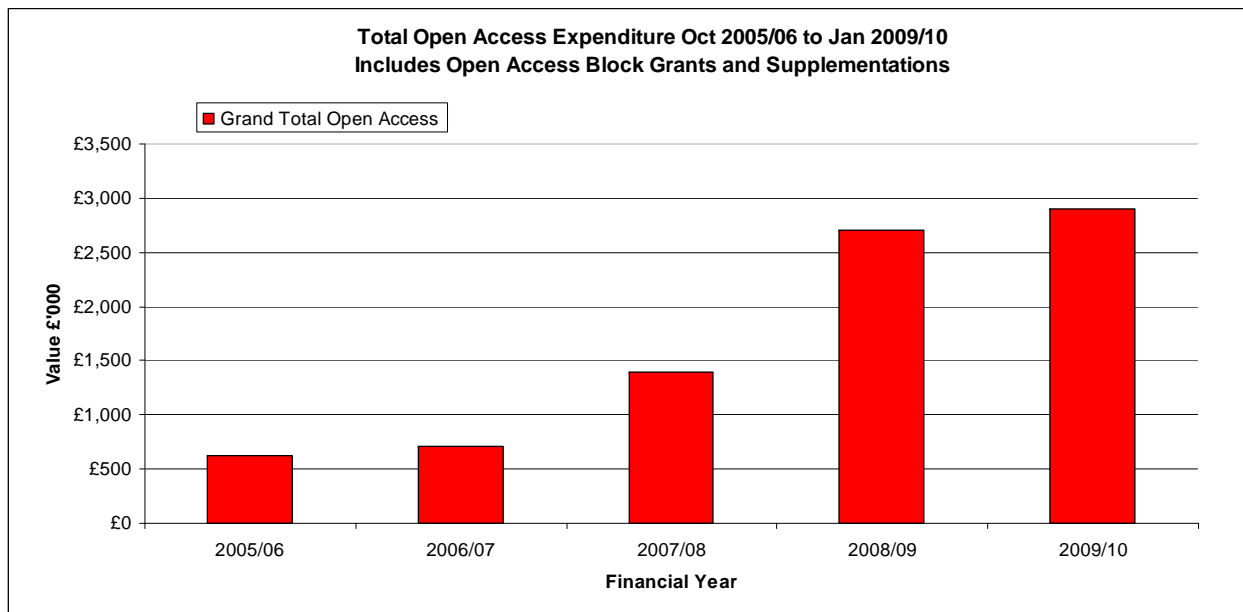
Dr Mark Walport, Director of the Wellcome Trust, said:

"Digital archives such as PubMed Central add enormous value to research. Everyone, everywhere will be able to read the results of the research that we fund. PubMed Central provides a

All research papers – funded in whole or in part by the Wellcome Trust – must be made freely accessible from the PubMed Central and UKPMC repositories as soon as possible, and in any event within six months of the journal publisher's official date of final publication

Funding to support mandate

- Trust believes that dissemination costs are research costs
- Provides funding to cover OA costs when publisher provides the following service:
 - deposits the final version of article in PMC on behalf of author
 - article is made available at the time of publication (no embargo)
 - article is licensed in ways that allows re-use



Working with publishers to support mandate

- Trust has worked with all the major STM publishers – encouraging them to develop “Wellcome-compliant” OA options
- In 2009, 98% of papers – attributed to the Trust – were published in journals that had a “Wellcome compliant” policy
- Of the papers in UKPMC that arise from the Wellcome-mandate, 85% are publisher deposits; 15% author self archiving



Wellcome Images

Providing infrastructure to support mandate

- Established UKPMC – with 7 other UK research funders
- At its core UKPMC provides functionality for:
 - ♦ publishers to deposit papers (via PMC) and
 - ♦ authors to self-archive papers
- Programme of development over the last 5 years – led by our partners at the British Library, EBI, and University of Manchester – has resulted in a function-rich repository



The screenshot displays the UKPMC (UK PubMed Central) website interface. At the top, there is a navigation bar with links for Home, About, News and RSS, Journal List, Grant Lookup, and FAQ and Guides. A search bar contains the text "management of stroke". Below the navigation bar, the main content area shows a search result for the article "Selection of medical diagnostic codes for analysis of electronic patient records. Application to stroke in a primary care database." (PMCID:PMC2744876). The article is authored by Gulliford MC, Charlton J, Ashworth M, Rudd AG, Toschke AM, and the eCRT Research Team. The abstract is available in full text, PDF, and as an exportable citation. The article is categorized under "Diseases(1)". The abstract text is visible, including the background, methods, results, and conclusion. A "Read Article at PLDS (Open access)" link is provided at the bottom of the abstract.

UKPMC functionality: single access point

The screenshot displays the UKPMC search interface. At the top left is the UK PubMed Central logo with a 'BETA' badge. A navigation bar includes links for Home, About, News and RSS, Journal List, Grant Lookup, FAQ and Guides, and UKPMC+. A search bar contains the text 'management of stroke' and a search button. To the right of the search bar are links for 'Clear Search', 'Advanced Search', 'Recent Activity', and 'Clipboard'. Below the search bar, the results are shown as 'Results 1 - 25 of 10512'. The results are faceted with 'All citations (10512)' and 'Full text articles (28764)'. The 'Sort by' options are 'Date' and 'Relevance'. The first result is 'Management of arterial blood pressure in acute ischemic and hemorrhagic stroke.' with a PMID of 20816267. The second result is 'The role of functional polymorphisms of the TNF-alpha gene promoter in the risk of ischemic stroke in Chinese Han and Uyghur populations: Two case-control studies.' with a PMID of 20493182. The third result is 'Sarcoidosis in the aged: review and management.' with a PMID of 20473168. The fourth result is 'Patent foramen ovale: a comprehensive review for pulmonologists.' with a PMID of 20592599. The fifth result is 'Panvascular inflammation and mechanisms of injury in perioperative CNS outcomes.' with a PMID of 20656746. The sixth result is 'Pneumonia and in-hospital mortality in the context of neurogenic oropharyngeal dysphagia (NOD) in stroke and a new NOD step-wise concept.' with a PMID of 20383519. On the right side, there is a 'Popular content sets' sidebar with a red border. It lists 'All results (10512)', 'Reviews (3276)', 'Biological Patents (81)', 'Doctoral Theses (12)', and 'UK Clinical Guidelines (57)'. A red arrow points from the 'All results (10512)' link to a text box at the bottom right. The text box contains the text: 'Single search across PubMed, Patents, Clinical Guidelines and UK Theses databases. Results faceted by source.'

UK BETA
PUBMED
CENTRAL

Feedback

Home About News and RSS Journal List Grant Lookup FAQ and Guides UKPMC+

management of stroke Search Clear Search Advanced Search Recent Activity Clipboard

Results: All citations (10512) Full text articles (28764) Sort by: Date | Relevance

Management of arterial blood pressure in acute ischemic and hemorrhagic stroke.
(PMID:20816267)
Hocker S, Morales-Vidal S, Schneck MJ
Neurologic Clinics [2010, 28(4):863-86]
It is essential to control arterial blood pressure (BP) in both hemorrhagic and ischemic stroke patients to decrease morbidity following an acute event and decrease the... [More >](#)

The role of functional polymorphisms of the TNF-alpha gene promoter in the risk of ischemic stroke in Chinese Han and Uyghur populations: Two case-control studies.
(PMID:20493182)
Tong Y, Geng Y, Xu J, Wang Z, Zhang Y, Lin L, Zhang R, et al.
Clinica Chimica Acta; International Journal of Clinical Chemistry [2010, 411(17-18):1291-5]
BACKGROUND: Increasing evidences for the role of tumor necrosis factor-alpha (TNF-alpha) in the occurrence of ischemic stroke (IS) have shown that it belongs to pro-inflammatory... [More >](#)

Sarcoidosis in the aged: review and management.
(PMID:20473168)
Tachibana T, Iwai K, Takemura T
Current Opinion in Pulmonary Medicine [2010, 16(5):465-71]
PURPOSE OF REVIEW: We intend to update the data of various clinical features and management of sarcoidosis in the aged. RECENT FINDINGS: Subclinical or inapparent systemic... [More >](#)

Patent foramen ovale: a comprehensive review for pulmonologists.
(PMID:20592599)
Rigatelli G, Ronco F
Current Opinion in Pulmonary Medicine [2010, 16(5):442-7]
PURPOSE OF REVIEW: A comprehensive review of the main concepts about patent foramen ovale (PFO) management is offered. RECENT FINDINGS: PFO is a common, usually benign,... [More >](#)

Panvascular inflammation and mechanisms of injury in perioperative CNS outcomes.
(PMID:20656746)
Murkin JM
Seminars in Cardiothoracic and Vascular Anesthesia [2010, 14(3):190-5]
In this review, the evidence for inflammatory processes as being of fundamental importance in end-organ dysfunction- specifically stroke and neurocognitive impairment... [More >](#)

Pneumonia and in-hospital mortality in the context of neurogenic oropharyngeal dysphagia (NOD) in stroke and a new NOD step-wise concept.
(PMID:20383519)
Ickenstein GW, Riecker A, Höhlig C, Müller R, Becker U, Reichmann H, Prosiegel M
Journal of Neurology [2010, 257(9):1492-9]

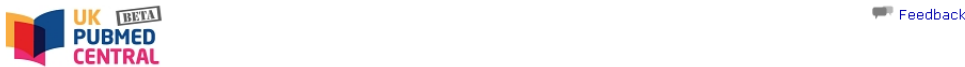
Popular content sets

All results (10512)
Reviews (3276)
Biological Patents (81)
Doctoral Theses (12)
UK Clinical Guidelines (57)
[More >](#)

Single search across PubMed, Patents, Clinical Guidelines and UK Theses databases.
Results faceted by source.

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UKPMC functionality: citation services



Feedback

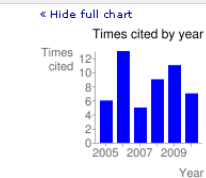
Home About News and RSS Journal List Grant Lookup FAQ and Guides UKPMC+

human genome sanger 2000

A survey of RNA editing in human brain (PMID:15545495)

Abstract Citations BioEntities Related Articles

Cited By - displaying 51 of 51 citations • **Web of Science® times cited (87)**



- Evolutionarily conserved human targets of adenosine to inosine RNA editing. (PMID:15731336)
- SINEs point to abundant editing in the human genome. (PMID:15833131)
- Identification of RNA editing sites in the SNP database. (PMID:16100382)
- Letter from the editor: Adenosine-to-inosine RNA editing in Alu repeats in the human genome. (PMID:16138094)
- A method to find tissue-specific novel sites of selective adenosine deamination. (PMID:16257978)
- Statistical evidence for conserved, local secondary structure in the coding regions of eukaryotic mRNAs and pre-mRNAs. (PMID:16275783)
- Tandem chimerism as a means to increase protein complexity in the human genome. (PMID:16344564)

Cites the following - displaying 34 of 34 citations

- RNA editing by adenosine deaminases that act on RNA. (PMID:12045112) Bass BL. Annu. Rev. Biochem. [2002]
- C-to-U RNA editing: mechanisms leading to genetic diversity. (PMID:12446660) Blanc V, Davidson NO. J. Biol. Chem. [2003]
- Regulation of serotonin-2C receptor G-protein coupling by RNA editing.

Cited-by and cited data + API to WoS

- Back to results
- Formats
- Abstract
 - Full Text
 - PDF
 - Export citation (RIS)
 - Email citation

- Search by Subject
- Aged
 - Base Sequence
 - Brain
 - Computer Simulation
 - DNA, Intergenic
 - Gene Library
 - Humans
 - Male
 - Repetitive Sequences, Nucleic Acid
 - Reverse Transcriptase Polymerase Chain Reaction
 - RNA Editing
 - Sequence Alignment
 - Sequence Analysis, DNA

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Citing Articles

Title: A survey of RNA editing in human brain
Author(s): Bass BL
Source: GENOME RESEARCH Volume: 14 Issue: 12 Pages: 2379-2387 Published: DEC 2004

The above article has been cited by the articles listed below.
Note: The Times Cited count is calculated across all Web of Science editions. More information.

Results: 87 Page 1 of 9

Refine Results

- Subject Areas: BIOCHEMISTRY & MOLECULAR BIOLOGY (45), GENETICS & HEREDITY (37), CELL BIOLOGY (14), BIOTECHNOLOGY & APPLIED MICROBIOLOGY (12), MULTIDISCIPLINARY SCIENCES (7)
- Document Types: ARTICLE (90), REVIEW (24), PROCEEDINGS PAPER (2), EDITORIAL MATERIAL (1)
- Authors: Source Titles, Publication Years, Conference Titles, Institutions, Funding Agencies, Languages

- Title: Large-scale detection and analysis of RNA editing in grape mtDNA by RNA deep-sequencing
Author(s): Picardi E, Horner DG, Chiara M, et al.
Source: NUCLEIC ACIDS RESEARCH Volume: 38 Issue: 14 Pages: 4755-4767 Published: AUG 2010 Times Cited: 0
- Title: The complexities of microRNA regulation: mavericking around the rules
Author(s): Breving K, Esquella-Kirschner A
Source: INTERNATIONAL JOURNAL OF BIOCHEMISTRY & CELL BIOLOGY Volume: 42 Issue: 8 Pages: 1316-1329 Published: AUG 2010 Times Cited: 1
- Title: Functions and Regulation of RNA Editing by ADAR Deaminases
Author(s): Nishikura K
Source: ANNUAL REVIEW OF BIOCHEMISTRY, VOL 79 Book Series: Annual Review of Biochemistry Volume: 79 Pages: 321-349 Published: 2010 Times Cited: 1
- Title: ADAR1 editing in double-stranded UTRs and other noncoding RNA sequences
Author(s): Hundley HA, Bass BL
Source: TRENDS IN BIOCHEMICAL SCIENCES Volume: 35 Issue: 7 Pages: 377-383 Published: JUL 2010 Times Cited: 0
- Title: Enigmatic In Vivo Idoanone-2-Sulfatase (IDS) Mutant Transcript Correction to Wild-Type in

UKPMC functionality: FactFinder (goes live early in 2011)

Questions automatically generated in response to query



Prototype of Fact Finder by NaCTeM

diabetes insipidus Clear Search Advanced Search

1 Results 1 - 5 of 5

[Different reactivities of high density lipoprotein2 subfractions with hepatic lipase.](#)

► Abstract: Human high density lipoproteins2 (HDL2) consist of particles that contain both a...
... **Diabetes insipidus in isolation** can be **treated with continuous IV vasopressin infusion (≈ 2.4 U/h)** or **intermittent IV DDAVP** ...
Mowri HO, Patsch W, Smith LC, Gotto AM Jr, Patsch JR
Journal of lipid research 33 (9), 1992, 1269-79
PMCID: 1402396

[Wheat gliadin: digital imaging and database construction using a 4-band reference system of agarose isoelectric focusing patterns.](#)

► Abstract: An isoelectric focusing method using thin-layer agarose gel has been developed f...
... **Diabetes Insipidus** was **treated with enteric desmopressin (DDAVP)**, and diuresis and serum sodium were used to titrate the dose of DDAVP. ...
Black JA, Waggamon KA
Electrophoresis 13 (9-10), 1992, 800-2
PMCID: 1459115

[Tapeworm-host interactions.](#)

► Abstract:
... Postoperatively, desmopressin therapy was initiated to **treat diabetes insipidus**. ...
Arme C
Symposia of the Society for Experimental Biology null (29), 1975, 505-32

Ask a question

- What causes nephrogenic diabetes insipidus? (9 full-text :)
- What treats diabetes insipidus? (5 full-text articles)**
- What causes diabetes insipidus? (3 full-text articles)
- What causes congenital nephrogenic diabetes insipidus? (1 full-text article)
- What does nephrogenic diabetes insipidus cause? (1 full-text article)

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Answers extracted from the full text document

UKPMC functionality: Grant Reporting tools

“My Impact Report”

“My Grant Report”

UK PUBMED CENTRAL WT User (Log off)

Main Menu My Manuscripts My UKPMC My NCBI Preferences Help

My UKPMC | My Impact

Report for Dr T Hubbard

Export My Impact as CSV XML

Hide publications where Dr T Hubbard is not a cited author

Sort by UKPMC Full-text Downloads

#	Article	Web of Science® Times Cited	Scopus Citation Count	UKPMC Full-text Downloads
1	A Bayesian deconvolution strategy for immunoprecipitation-based DNA methylome analysis. Down TA, Rakyan VK, Turner DJ, Flicek P, Li H, Kulesha E, Graf S, Johnson N, Herrero J, Tomazou EM, Thorne NP, Bäckdahl L, Herberth M, Howe KL, Jackson DK, Miretti MM, Marioni JC, Birney E, Hubbard TJ, Durbin R, Tavaré S, Beck S Nat Biotechnol 2008 Jul; 26(7): 779-85	60	57	165
2	Comparison of Mascot and X!Tandem performance for low and high accuracy mass spectrometry and the development of an adjusted Mascot threshold. Brosch M, Swamy S, Hubbard T, Choudhary J Mol Cell Proteomics 2008 May; 7(5): 962-70	12	15	103
3	BioJava: an open-source framework for bioinformatics. Holland RC, Down TA, Pocock M, Prlic A, Huen D, James K, Folsy S, Dräger A, Yates A, Heuer M, Schreiber MJ Bioinformatics 2008 Sep 15; 24(18): 2096-7	20	22	94
4	An integrated resource for genome-wide identification and analysis of human tissue-specific differentially methylated regions (IDMRs). Rakyan VK, Down TA, Thorne NP, Flicek P, Kulesha E, Graf S, Tomazou EM, Bäckdahl L, Johnson N, Herberth M, Howe KL, Jackson DK, Miretti MM, Fiegler H, Marioni JC, Birney E, Hubbard TJ, Carter NP, Tavaré S, Beck S Genome Res 2008 Sep; 18(9): 1518-29	46	49	59
5	Ensembl 2007. Hubbard TJ, Aken BL, Beal K, Ballester B, Caccamo M, Chen Y, Clarke L, Coates G, Cunningham F, Cutts T, Down T, Dyer SC, Fitzgerald S, Fernandez-Banet J, Graf S, Haider S, Hammond M, Herrero J, Holland R, Howe K, Johnson N, Kahari A, Keefe D, Kokocinski F, Kulesha E, Lawson D, Longden I, Melsopp C, Megy K, Meidl P, Overduin B, Parker A, Prlic A, Rice S, Rios D, Schuster M, Sealy I, Severin J, Slater G, Smedley D, Spudich G, Trevanion S, Vilella A, Vogel J, White S, Wood M, Cox T, Curwen V, Durbin R, Fernandez-Suarez XM, Flicek P, Kasprzyk A, Proctor G, Searle S, Smith J, Ureta-Vidal A, Birney E	387	313	51

UK PUBMED CENTRAL WT User (Log off)

Main Menu My Manuscripts My UKPMC My NCBI Preferences Help

My UKPMC | My Grants | Grant Report

This Grant Report contains details of all articles in PMC or PubMed that are linked to Grant BBSRC - BBE0116401.

Export Grant Report BBSRC - BBE0116401 as CSV XML

Pi(s) Dr Tim Hubbard
Funder BBSRC
Grant ID BBE0116401
Dates 01/01/2007 - 31/12/2009
Grant Type Standard grant
Stream (not available)
Grant Amount £473,268

Project Title Pig genome annotation and analysis
Institution Wellcome Trust Sanger Institute
Abstract

Publication Date Sort

1 **Ensembl's 10th year.**
 Flicek P, Aken BL, Ballester B, Beal K, Bragin E, Brent S, Chen Y, Clapham P, Coates G, Fairley S, Fitzgerald S, Fernandez-Banet J, Gordon L, Graf S, Haider S, Hammond M, Howe K, Jenkinson A, Johnson N, Kahari A, Keefe D, Keenan S, Kinsella R, Kokocinski F, Koscielny G, Kulesha E, Lawson D, Longden I, Massingham T, McLaren W, Megy K, Overduin B, Pritchard B, Rios D, Ruffer M, Schuster M, Slater G, Smedley D, Spudich G, Tang YA, Trevanion S, Vilella A, Vogel J, White S, Wilder SP, Zadissa A, Birney E, Cunningham F, Dunham I, Durbin R, Fernández-Suarez XM, Herrero J, Hubbard TJ, Parker A, Proctor G, Smith J, Searle SM
 Nucleic Acids Res 2010 Jan; 38(Database issue): D557-62
 PMID: 19906699 | PMCID: 2808936
 Funded by: Wellcome Trust - 062023
 Wellcome Trust - 077198
 BBSRC - BBE0116401
 BBSRC
 Wellcome Trust

Citation counts: Web of Science® Times Cited 7 | Scopus Citation Count 6 | UKPMC Full-text Downloads 0
 Abstract

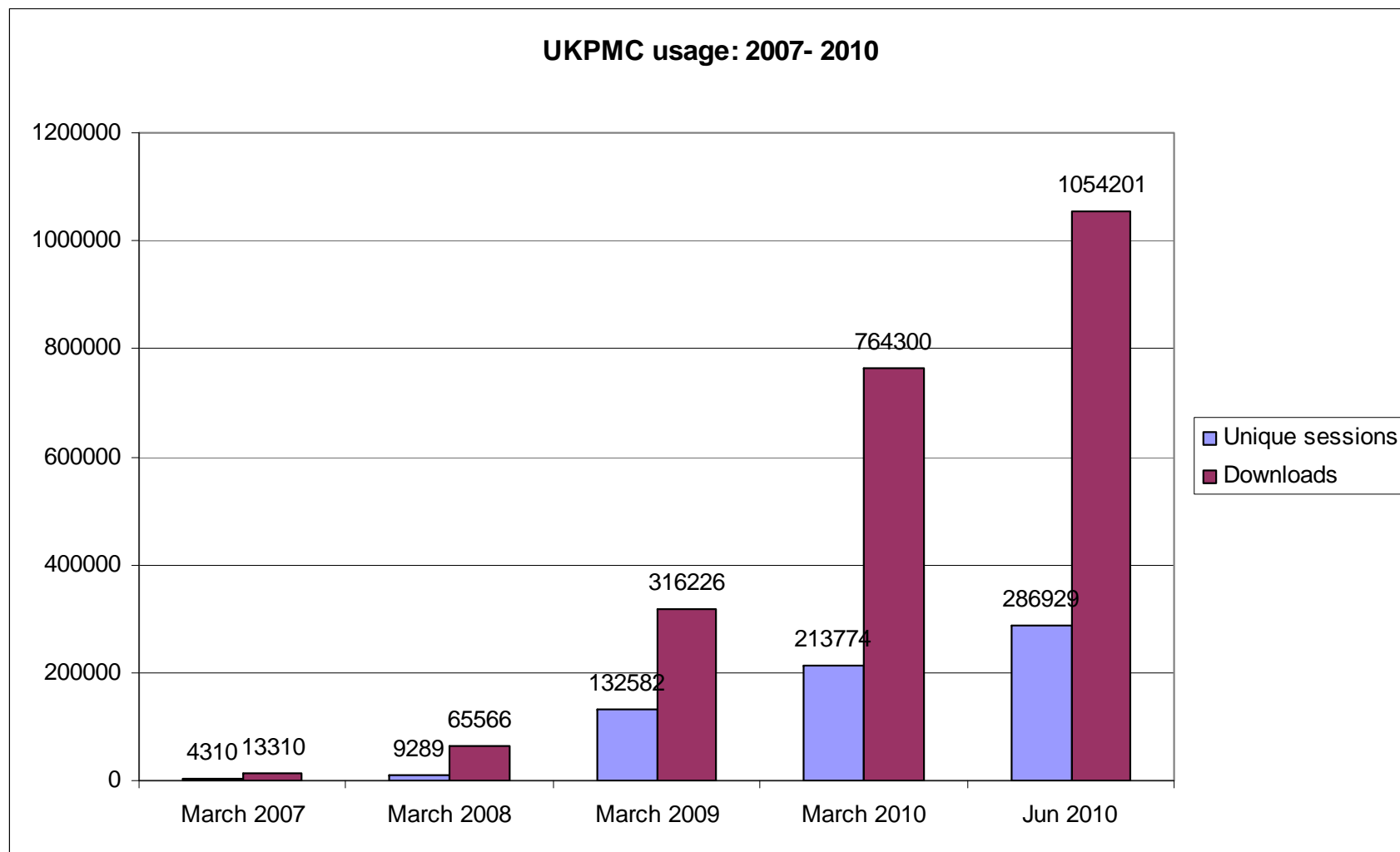
2 **Ensembl 2009.**
 Hubbard TJ, Aken BL, Ayling S, Ballester B, Beal K, Bragin E, Brent S, Chen Y, Clapham P, Clarke L, Coates G, Fairley S, Fitzgerald S, Fernandez-Banet J, Gordon L, Graf S, Haider S, Hammond M, Holland R, Howe K, Jenkinson A, Johnson N, Kahari A, Keefe D, Keenan S, Kinsella R, Kokocinski F, Kulesha E, Lawson D, Longden I, Megy K, Meidl P, Overduin B, Parker A, Pritchard B, Rios D, Schuster M, Slater G, Smedley D, Spooner W, Spudich G, Trevanion S, Vilella A, Vogel J, White S, Wilder S, Zadissa A, Birney E, Cunningham F, Curwen V, Durbin R, Fernandez-Suarez XM, Herrero J, Kasprzyk A, Proctor G, Smith J, Searle S, Flicek P
 Nucleic Acids Res 2009 Jan; 37(Database issue): D690-7
 PMID: 19033362 | PMCID: 2686571
 Funded by: Wellcome Trust - 062023
 Wellcome Trust - 077198
 BBSRC - BBE0116401
 Wellcome Trust - WT062023
 BBSRC
 MRC

Citation counts: Web of Science® Times Cited 185 | Scopus Citation Count 178 | UKPMC Full-text Downloads 0



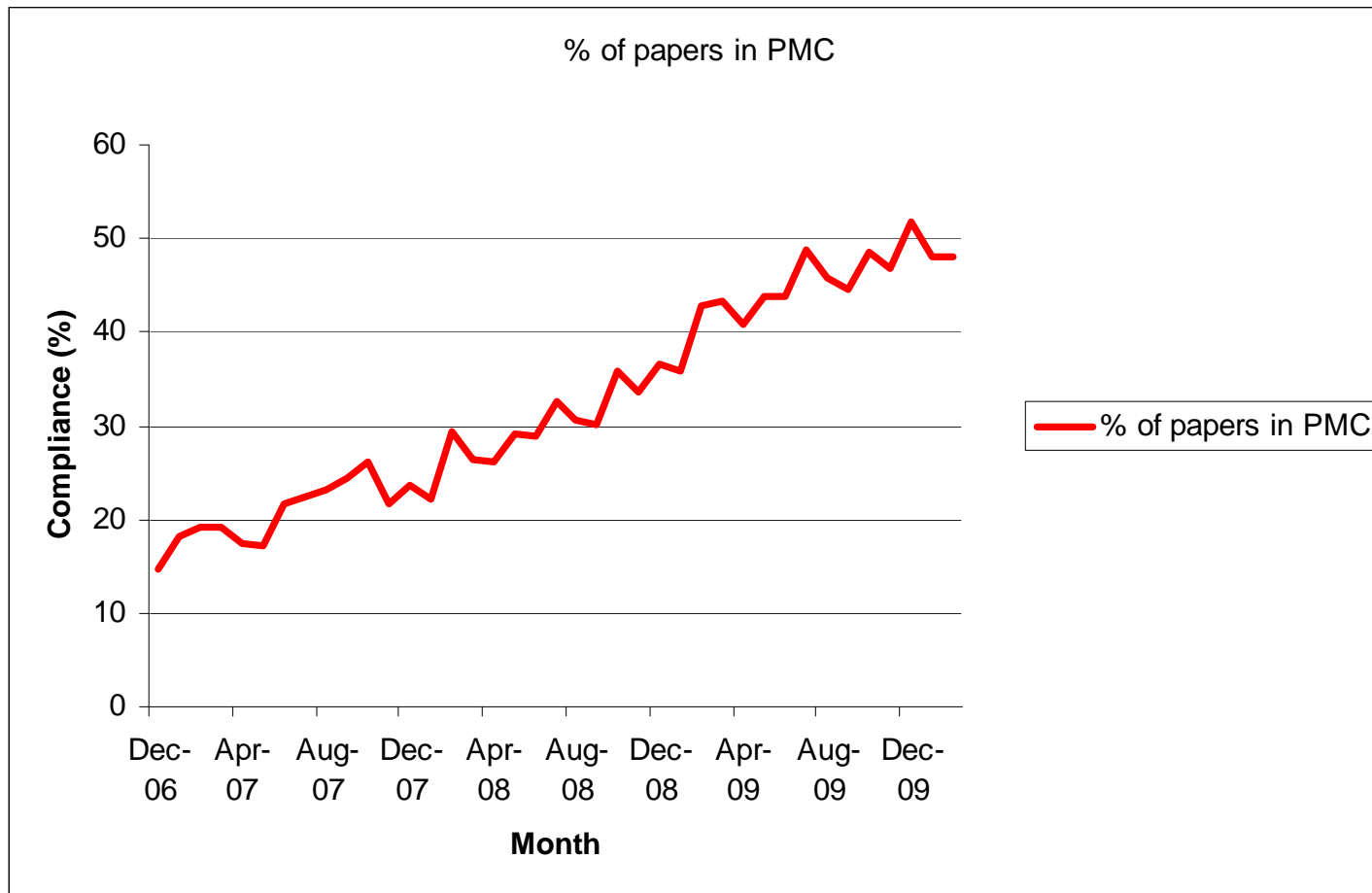
Live example at: <http://goo.gl/feuL>

Usage at UKPMC



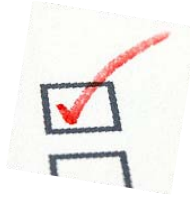
Compliance? – around 50%

- Significant increase from 2006 – but still a long way to go...



Compliance with Wellcome OA mandate

Improving compliance with mandate: role of Funders



- Funders must be explicit about how researchers and institutions can access funding for OA
- Monitor compliance
 - ♦ Following letter from Wellcome to VC's significant there was a 52% increase in author depositions
 - ♦ Trust also checks End of Grant Reports for compliance
 - ♦ Considering checking for compliance at the time of publication
- Communication
 - ♦ Demonstrate the benefits of OA to the researcher (as well as the research community more generally)
- Sanctions?
 - ♦ Need to proportionate
 - ♦ Persuasive, rather than a punitive approach is preferable

Improving compliance with mandate: role of institutions & researchers



- Improve access to OA funds
 - ♦ Institutions to ensure OA publishing costs are requested as direct and indirect costs when applying for research funds
 - ♦ Establish dedicated budgets to meet OA costs
- Better communication
 - ♦ Arrangements for meeting OA fees to be effectively communicated
- Support from senior staff
 - ♦ WT Sanger Institute has a compliance rate of 82%
- Encouraging authors to self-archive
 - ♦ 2009 data shows that only 42% of Wellcome-funded papers – published in *Science* and *Nature* – were archived in UKPMC

Improving compliance with mandate: role of publishers

- Simplify process for authors who wish to select an OA option
 - ◆ Build OA option into manuscript submission workflow
 - ◆ Provide follow-up campaigns
- Make explicit the relationship between subscription costs and uptake of OA option
 - ◆ This will give confidence that funders and institutions are not paying access fees twice (“double dipping”)

FUNDING

Research reported in the article:

- received no funding or funding from source other than below
- was funded by **The US National Institutes of Health (NIH)**
- was performed by a **Howard Hughes Medical Institute (HHMI)** investigator
- was **publicly funded in Brazil**
- was supported by **The Wellcome Trust**

Upon final publication, Elsevier will send to PubMed Central (PMC) the final document used to generate the definitive published journal article that appears on ScienceDirect. This document reflects all author-agreed changes that arise from the peer-review, copy-editing and proofing processes. Elsevier will authorize its public posting on PMC, and PMC mirror sites, immediately. PMC and PMC mirror sites will also link directly to the final published journal article, which will continue to reside only on Elsevier's websites and which Elsevier will make freely available to both non-subscribers and subscribers. Subject to [certain conditions](#), documents published under this sponsorship model may be redistributed and reused.

Authors publishing in Elsevier journals can comply with [Wellcome Trust policy](#) by paying a fee to the journal to help offset the cost of peer review and other publishing costs. Wellcome Trust will reimburse authors who have paid the fee. The fee is \$3000 per article for The Compile Issue Journal with a changed title for OACS test.

To comply with Wellcome Trust policy, please fill in the following information. After submitting the form, you or your institution will be invoiced.

Note: Price is subject to local taxation. The total price, including tax, will appear on the invoice that is sent.

Figure 1: OA integrated into workflow

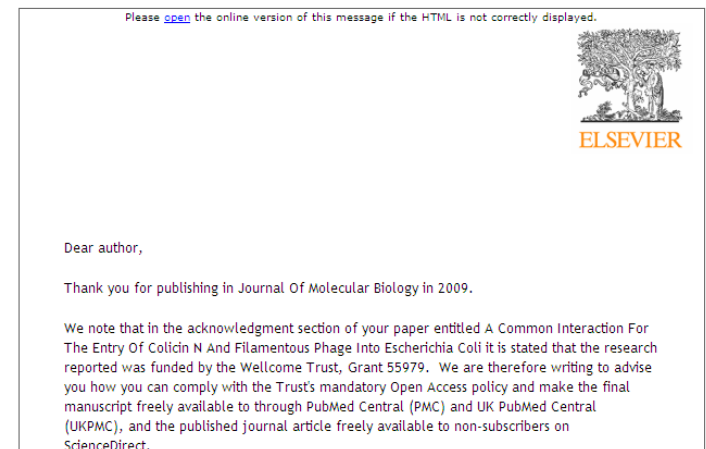


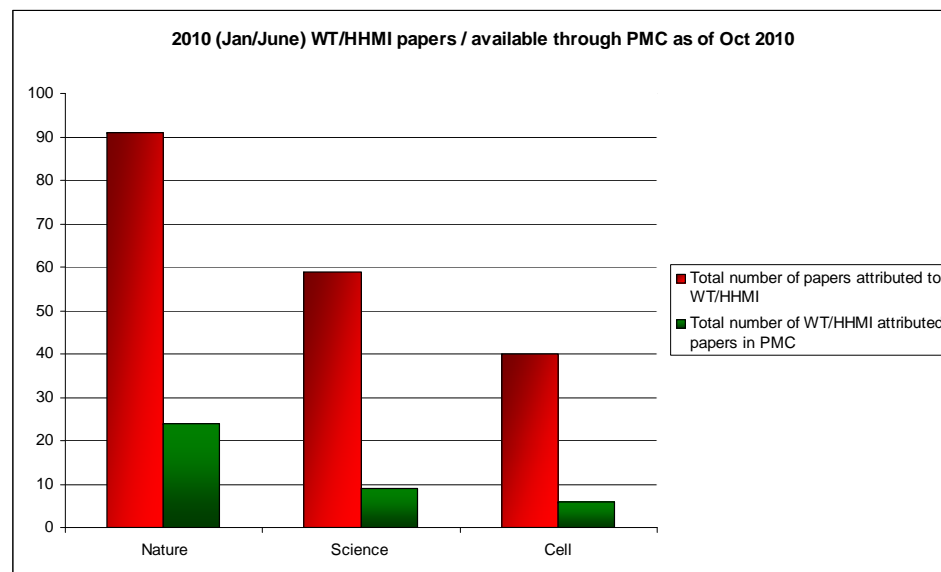
Figure 2: Follow-up campaign

Transforming UKPMC to Europe PMC?

- Aim is to establish a **single**, Europe-wide, repository where all European-funded, peer-reviewed, biomedical research papers can be accessed, data-mined and integrated into other related information sources
- Benefits include:
 - ♦ Greater visibility of research findings
 - ♦ Research process enhanced – e.g. through development of text mining services; additional metadata etc
 - ♦ Greater compliance with funder mandate
- Current status?
 - ♦ Four European funders have joined UKPMC
 - Science Foundation Ireland, Health Research Board (Ireland), Austrian Science Fund, Telethon Italy. Other funders welcome.
- Next step?
 - ♦ Exploring possibility of UKPMC becoming the literature hub within the ELIXIR programme

Developing the OA agenda: future role for funders?

- Concern that developments in OA have not impacted on the top tier journals
 - *Nature* and *Science* have no OA option - papers embargoed for 6 months
- Full potential of web – to speed up publication time, take advantage of new types of peer review – not fully realised
- Unease around OA publishing costs
- WT/HHMI/MPS organising a workshop for scientists to discuss these issues



Conclusion

- OA at the Wellcome Trust has made significant progress over the last 5 years
- However, the primary actors - funders, researchers, institutions and publishers - need to continue to work together to realise the full benefits of OA

