

# Open access and the Wellcome Trust

JISC conference Oxford,  
September 2006

Robert Terry, Senior Policy Adviser  
[r.terry@wellcome.ac.uk](mailto:r.terry@wellcome.ac.uk)

Wellcome Trust - one of the world's largest medical research charities

Expenditure in 2004/05 of c £480 million

Supports more than 3,000 researchers at 400 locations in 42 different countries



Funding major initiatives in public engagement with science and SciArt projects

The UK's leading supporter of research into the History of Medicine

# Why open access matters to us...

1: J Infect Dis. 2003 Oct 15;188(8):1239-44. Epub 2003 Sep 30. [Related Articles, Links](#)

The University of  
Chicago Press

## Safety and immunogenicity of DNA/modified vaccinia virus ankara malaria vaccination in African adults.

Moorthy VS, Pinder M, Reece WH, Watkins K, Atabani S, Hannan C, Bojang K, McAdam KP, Schneider J, Gilbert S, Hill AV.

Medical Research Council Laboratories, Banjul, The Gambia.

The present  
modified vac  
DNA sequen  
against Plas  
immunogenic  
prior DNA M  
malaria-exp  
recombinant

Funded by  
the Wellcome  
Trust and  
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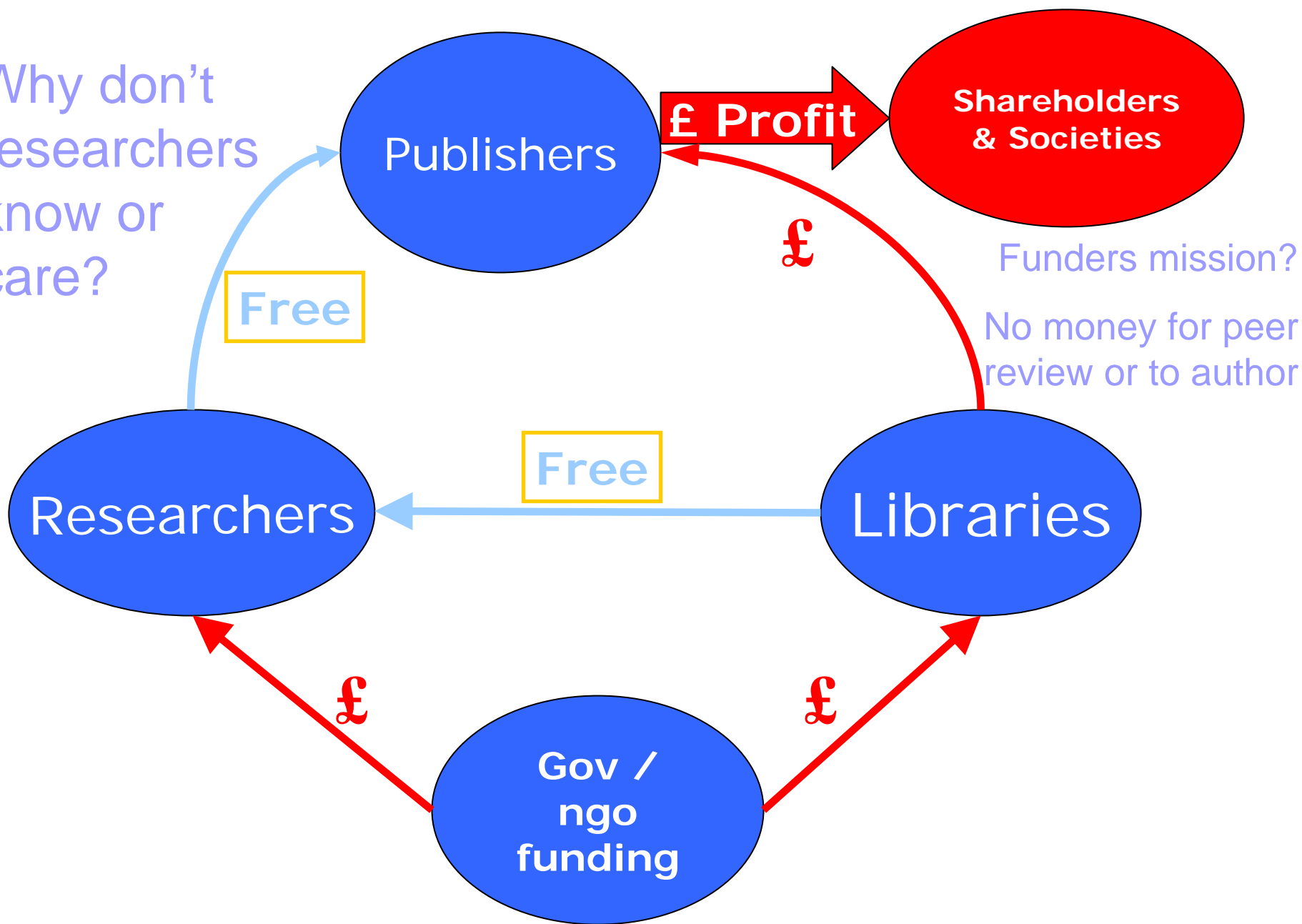


# Open Access what is it about....

- Improving access to peer reviewed original research literature
- Improving the use of the literature and data
- Improving research
- NOT about reforming the publishing market



Why don't researchers know or care?



# Why should open access publication be important to research funders?

- Just funding the research is a job only part done – a fundamental part of their mission is to ensure the widest possible dissemination and unrestricted access to that research.
- Research is a public good not depleted but added to through use
- It's all about improving access – improving research

- 90% of NHS-funded research available online full text
- 30% immediately available to public

Only 40% immediately available to NHS staff

Submission to the House of Commons Science and Technology Committee's Inquiry into Scientific Publications "How accessible is NHS-funded research to the general public and to the NHS's own researchers? Matthew Cockerill Ph.D., Technical Director, BioMed Central Ltd. <http://www.biomedcentral.com/openaccess/inquiry/refersubmission.pdf>

# Open access at Wellcome: policy

- From October 1 2006, it is a condition of Trust funding that a copy of any **original research paper** published in a peer-reviewed journal must be deposited into PubMed Central (PMC) – UKPMC from 1 January 2007
  - ◆ First funding body to mandate this
  - ◆ Books, conference proceedings, editorials, reviews are NOT covered by this policy

# Open access at Wellcome: policy

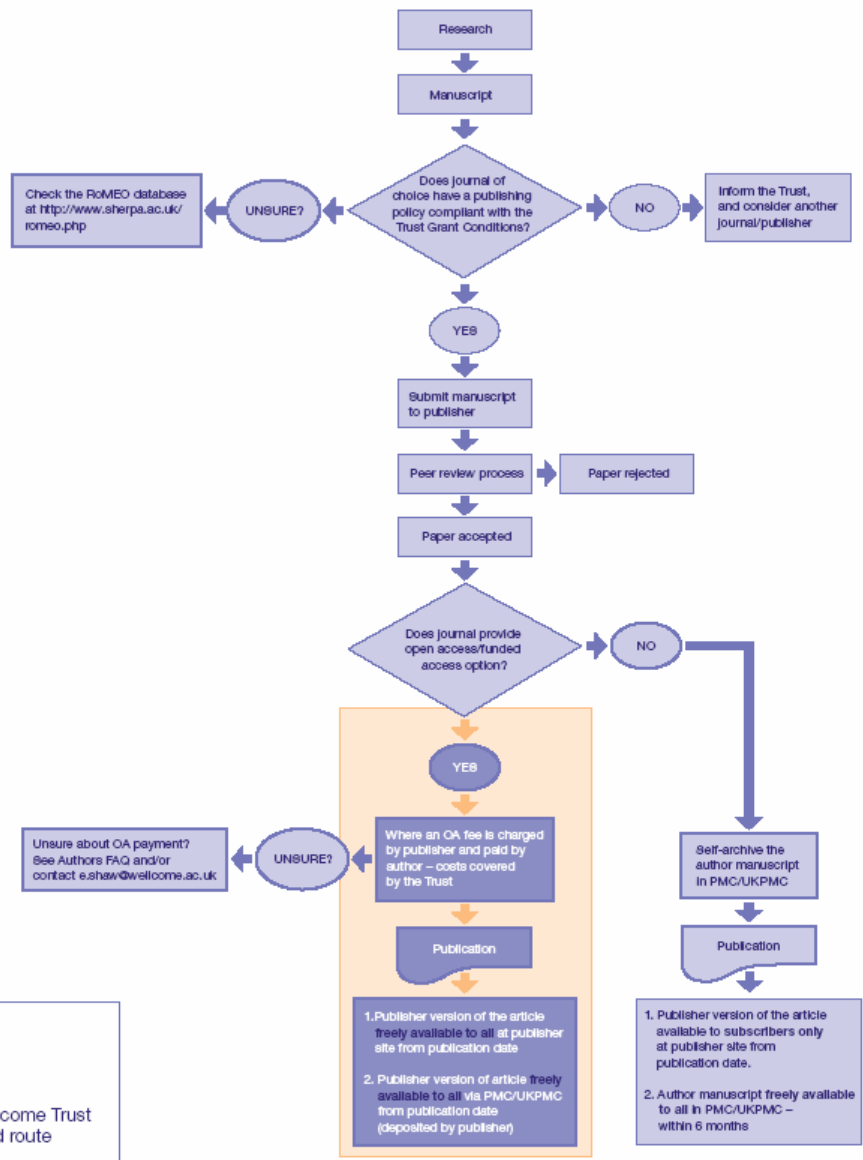
- The Trust provides **additional** funding to cover the costs of choosing an open access option
- Approximately 1% of the research grant budget would cover costs of open access publishing
  - ◆ Block awards to top 30 universities
  - ◆ Supplement grants
  - ◆ Contingency element within the grant

# Open access at Wellcome: policy

## New open access publishing choices by article

- ◆ OUP, Springer, Blackwell, CUP, BMJ, Royal Society, RS Chemistry, Taylor and Francis, learned societies .... (others on their way)
- ◆ + full Open access titles BMC, PLoS
- ◆ By 1 October 2006 more than 90% of journals used by Trust-funded authors will have an open access option
- RoMEO survey of journal policies on archiving will cover all journals used by Trust authors by 1 October 2006

OPEN ACCESS – COMPLYING WITH THE WELLCOME TRUST GRANT REQUIREMENTS



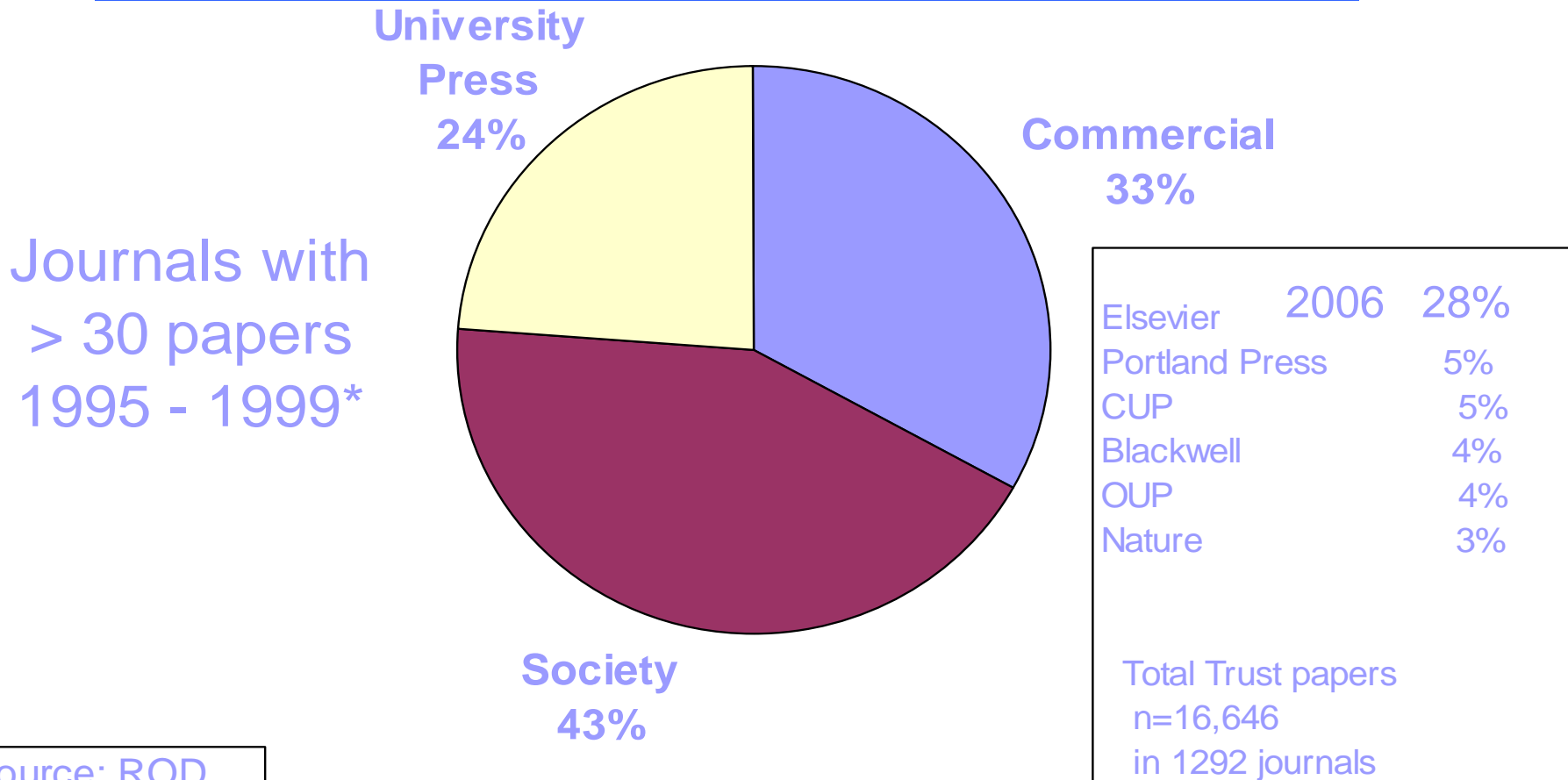
**KEY**

The Wellcome Trust preferred route

For further information see: <http://www.wellcome.ac.uk/openaccess>

# What will it cost funders?

Trust estimates: 1 – 2% of research budget



\*Source: ROD

# Portable PubMed Central – UK PMC

*To develop a PubMed Central portal in the UK that will create a stable, permanent digital archive of peer-reviewed biomedical research publications\* that is accessible for free via the Internet.*

\*Dept. of Health, MRC, BBSRC, JISC, Cancer Research – UK, British Heart Foundation, Arthritis Research Campaign, Wellcome Trust, AMRC.

Mirror the data from USA, Japan, France... collaboration and competition.

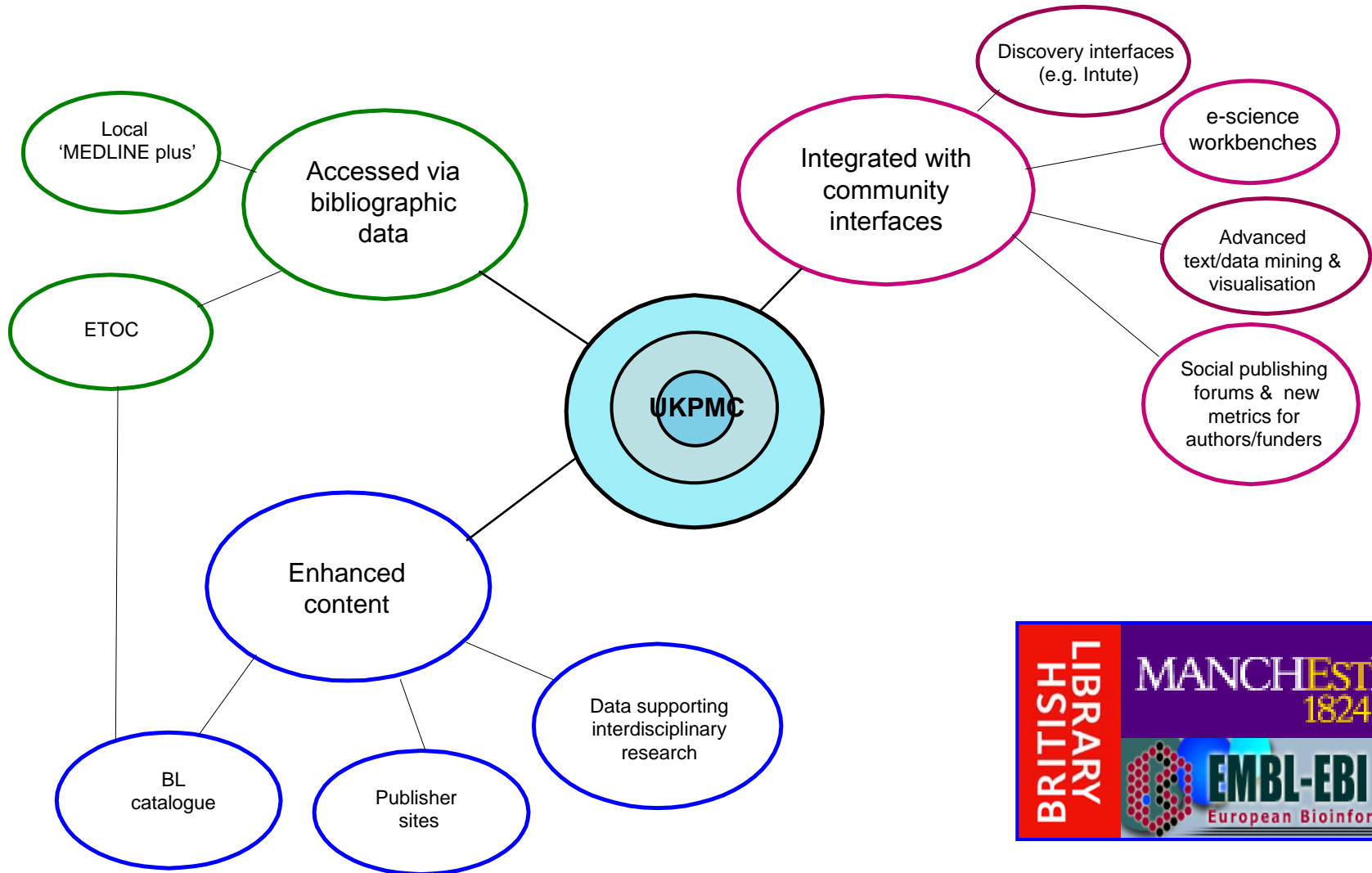
Contract awarded to British Library, University of Manchester and the EBI – go live date January 2007

# Portable PubMed Central – UK PMC

Contract awarded to British Library, University of Manchester and the EBI – go live date January 2007



# British Library Vision for UKPMC



# Why PMC (UKPMC) and not IR's?

- **Long-term preservation**
  - ♦ All articles in PMC are marked-up in XML - future-proofing the record of medicine – global solution – ease of use <3minutes to deposit – publishers deposit final published version
- **Accessible under “one roof” – you can find and trust what you’ve found**
  - ♦ PubMed is the default search tool for biomedical researchers
  - ♦ All PMC articles linked to the PubMed citation - seamless searching
- **Can add research value**
  - ♦ Example (using live hyperlinks) [Pubmed](#) & [Google](#)
- **Great visibility**
  - ♦ “... the impact of OA and non-OA articles from the same journal in the first 4–16 mo after publication shows that OA articles are cited earlier and are, on average, cited more often than non-OA articles.” \*
- **Evaluation purposes**
  - ♦ RAE metrics
  - ♦ Funder attribution: [WT papers in PubMed](#) [WT papers in PMC](#)

Eysenbach G. Citation advantage of open access articles. PloS Biol 2006;4: e157 [http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1459247]  
Accessed Sept 2006

# UKPMC – quality, consistency, integrate data & literature

There are three types of errors that PubMed Central deal with:

**1. Structural Errors** do not conform to the ruleset (DTD) that they were written for e.g. XML tags are wrong: `<surname>Jones</snm>`

**2. Content Errors** formula, tables, paragraphs, special characters (Greek characters or symbols) are not correct.

**3. Consistency Errors** tagged in one style suddenly switches e.g. For the first 5 years of content, Journal X has been tagging dates like:  
`<date>10-12-2004</date>` (m-d-y)

Then, this date appears in content:  
`<date>14-12-2004</date>` (this must be d-m-y)

**4. Integrate the literature with the data**

# Data management and sharing policies

A number of funding agencies (NIH, MRC, NERC) make it a requirement of funding that researchers develop a data management plan which will include a plan to enable the sharing of the data.

The Trust now has a policy and considers that it is good research practice for researchers to plan how they will manage the data generated during research. How data will be shared (or not) should be a key element of a data management plan.

The role of funders and the peer review system will be to:

- ♦ review these data management and sharing plans, including any costs involved in delivering them, as an integral part of the funding decision.

Volume 100 Number 20, 30 September 2003

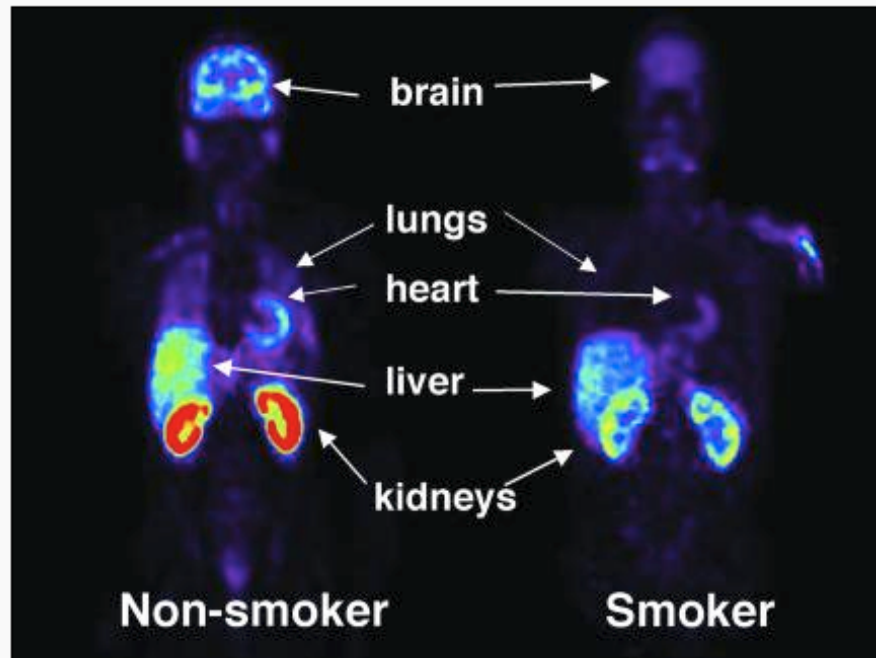


Fig 2.

Whole-body images of carbon-11 distribution in one of the nonsmokers and one of the smokers. These subjects were scanned with L-[<sup>11</sup>C]deprenyl, and scanning was started at 25-min post-radiotracer injection. Red is the highest radiotracer concentration on the color scale, and images are scaled so that they can be compared directly.

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smokers.  
Franceschi D, Pappas N, Ferrieri R, Shea C, Garza V, Xu Y, Schlyer D, Gatley M, King P, Vaska P.  
15. published online before print September 12, 2003

[Links](#)

Source: David Lipman,  
Director, National Centre  
for Biotechnology  
Information, NLM, USA

# Link to imaging agent in PubChem through MeSH

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**PNAS**  
Proceedings of the National Academy of Sciences of the United States of America

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Proc Natl Acad Sci U S A. 2003 September 30; 100(20): 11600-11605.  
doi: 10.1073/pnas.1000000100

**Substance Summary**

Medical Sciences  
Inaugural Article

**Low monoamine oxidase activity in the brain of a patient with a mutation in the MAO-A gene**

Joanna S. Fowler, Donald Warner, Payton King, and David Warner

\*Chemistry Department, Brookhaven National Laboratory, Upton, NY 11973; and †Department of Chemistry, Brookhaven National Laboratory, Upton, NY 11974

Contributed by Joanna S. Fowler

† To whom correspondence should be addressed.

Compound Displayed: Standardized

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Articles by:  
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CID: 134262  
Name: selegiline  
PubMed-via-MeSH: 1786 links

Identical Compounds:  
Same Connectivity: 11 links

Similar Compounds: 119 links

CC(C)C(C#N)Cc1ccccc1

Source: CHEMBANK (2284)

Source: David Lipman, Director, National Centre for Biotechnology Information, NLM, USA

# Links between sequence and related proteins

The screenshot displays the NCBI Entrez Protein interface. At the top, there is a navigation bar with links for BLAST, Protein, Structure, PubMed, and Taxonomy, and sub-links for Genome, Nucleotide, 3D-Domains, Books, and Help. The main query area shows a search for "gi|32419048 hypothetical protein [Neurospora crassa]" with a matching result for "gi:28926253".

The search results section shows "200 BLAST" hits, with the first hit being "1: NP\_001005735. Reports protein kinase CH...[gi:54112407]". The protein details for NP\_001005735 are shown, including its definition as "protein kinase CHK2 isoform c [Homo sapiens]".

A "Links" popup menu is visible on the right side of the screen, listing various links related to the protein:

- Gene
- Full text in PMC
- GeneView in dbSNP
- Related Sequences
- Nucleotide
- OMIM
- PubMed
- Taxonomy
- LinkOut

The protein details section includes the following information:

**LOCUS** NP\_001005735 586 aa linear PRI 28-OCT-2004

**DEFINITION** protein kinase CHK2 isoform c [Homo sapiens].

**ACCESSION** NP\_001005735

**VERSION** NP\_001005735.1 GI:54112407

**DBSOURCE** REFSEQ: accession [NM\\_001005735.1](#)

**KEYWORDS** .

**SOURCE** Homo sapiens (human)

**ORGANISM** [Homo sapiens](#)  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

**REFERENCE** 1 (residues 1 to 586)

**AUTHORS** Dufault, M.R., Betz, B., Wappenschmidt, B., Hofmann, W., Bandick, K., Golla, A., Pietschmann, A., Nestle-Kramling, C., Rhiem, K., Huttner, C., von Lindern, C., Dall, P., Kiechle, M., Untch, M., Jonat, W., Meindl, A., Scherneck, S., Niederacher, D., Schmutzler, R.K. and Arnold, N.

**TITLE** Limited relevance of the CHEK2 gene in hereditary breast cancer

**JOURNAL** Int. J. Cancer 110 (3), 320-325 (2004)

**PUBMED** [15095295](#)

**REMARK** GeneRIF: there is a limited relevance for CHEK2 mutations in familial breast cancer



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1: Zurovac D, Ndhlovu M, Rowe AK, Hamer DH, Thea DM, Snow RW.

Related Articles, Links

Treatment of paediatric malaria during a period of drug transition to artemether-lumefantrine in Zambia: cross sectional study. BMJ. 2005 Oct 1;331(7519):734. PMID: 16195289 [PubMed - indexed for MEDLINE]

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- [A community perspective on the efficacy of malaria ...](#) - by Williams - 19 citations
- [Treatment of paediatric malaria during a period of drug ...](#) - by Zurovac - 2 citations

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**Treatment of paediatric malaria** during a period of drug transition to artemether-lumefantrine in **Zambia**: cross sectional study. Zurovac D, Ndhlovu M, ...  
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**Treatment of paediatric malaria** during a period of drug transition to artemether-lumefantrine in **Zambia**: cross sectional study ...  
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 At Macha Mission Hospital in rural **Zambia**, **pediatric malaria** cases were reduced ...  
**treatment** of acute uncomplicated falciparum **malaria**, the most dangerous ...  
[www.novartis.com/downloads/20060118\\_coartem\\_media\\_release.pdf](http://www.novartis.com/downloads/20060118_coartem_media_release.pdf) - [Similar pages](#)

[Rolling Back Malaria: Zambia](#)  
 In **Zambia**, he mused, **malaria** remains the leading cause of morbidity and mortality, ...  
 Previously, Coartem had only been approved for **treatment** of children ...  
[www.novartis.com/annual\\_reports/2004/malaria.shtml](http://www.novartis.com/annual_reports/2004/malaria.shtml) - 29k - [Cached](#) - [Similar pages](#)

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1: BMJ. 2005 Oct 1;331(7519):734. Related Articles, Links

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Note the reader is directed to PMC and the BMJ

- Comment in: BMJ. 2005 Oct 1;331(7519):706-7.

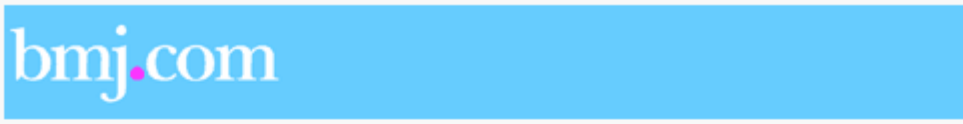
Treatment of paediatric malaria during a period of drug transition to artemether-lumefantrine in Zambia: cross sectional study.

Zurovac D, Ndhlovu M, Rowe AK, Hamer DH, Thea DM, Snow RW.

Malaria Public Health and Epidemiology Group, Centre for Geographic Medicine, KEMRI/Wellcome Trust Collaborative Programme, PO box 43640, 00100 GPO, Nairobi, Kenya. dzurovac@wtnairobi.mimcom.net

OBJECTIVE: To evaluate treatment practices for uncomplicated malaria after the policy change from chloroquine to sulfadoxine-pyrimethamine and to artemether-lumefantrine in Zambia. DESIGN: Cross sectional survey. SETTING: Outpatient departments of all government and mission facilities in four districts in Zambia. PARTICIPANTS: 944 children with uncomplicated malaria seen by 103 health workers at 94 health facilities. MAIN OUTCOME MEASURES: Antimalarial prescriptions in accordance with national guidelines and influence of factors on health workers' decision to prescribe artemether-lumefantrine. RESULTS: Artemether-lumefantrine, sulfadoxine-pyrimethamine, and chloroquine were available, respectively, at 48 (51%), 94 (100%), and 71 (76%) of the 94 facilities. Of 944 children with uncomplicated malaria, only one child (0.1%) received chloroquine. Among children weighing less than 10 kg, sulfadoxine-pyrimethamine was commonly prescribed in accordance with guidelines (439/550, 79.8%). Among the

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Snow, R.

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BMJ. 2005 October 1; 331(7519): 734.  
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### Treatment of paediatric malaria during a period of drug transition to artemether-lumefantrine in Zambia: cross sectional study

Dejan Zurovac, *clinical research officer*,<sup>1</sup> Mickey Ndhlovu, *clinical research officer*,<sup>2</sup> Alexander K Rowe, *medical epidemiologist*,<sup>3</sup> Davidson H Hamer, *associate professor*,<sup>4</sup> Donald M Thea, *professor*,<sup>4</sup> and Robert W Snow, *professor*<sup>5</sup>

<sup>1</sup> Malaria Public Health and Epidemiology Group, Centre for Geographic Medicine, KEMRI/Wellcome Trust Collaborative Programme, PO box 43640, 00100 GPO, Nairobi, Kenya

<sup>2</sup> Chainama Hills College Hospital of Health Sciences, Lusaka, Zambia

<sup>3</sup> Malaria Branch, Division of Parasitic Diseases, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia 30341, USA

<sup>4</sup> Center for International Health and Development, Boston University School of Public Health, Boston, MA 02118, USA

<sup>5</sup> Malaria Public Health and Epidemiology Group, Centre for Geographic Medicine, KEMRI/Wellcome Trust Collaborative Programme

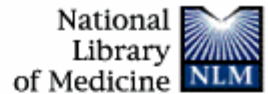
Correspondence to: D Zurovac [dzurovac@wtnairobi.mimcom.net](mailto:dzurovac@wtnairobi.mimcom.net)

Accepted August 18, 2005.

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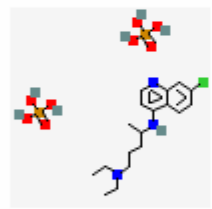
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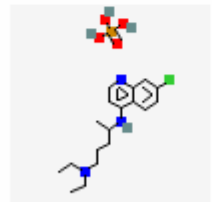
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1: CID: 64927 Links



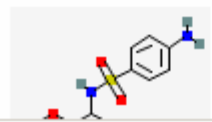
Chingaminum, Quingamine ...  
IUPAC: N'-(7-chloroquinolin-4-yl)-N,N-diethyl-pentane-1,4-diamine; phosphoric acid  
MW: 515.862 | MF: C18H32ClN3O8P2

2: CID: 83818 Links



Quingamine, Avloclor ...  
IUPAC: N'-(7-chloroquinolin-4-yl)-N,N-diethyl-pentane-1,4-diamine; phosphoric acid  
MW: 417.867 | MF: C18H29ClN3O4P

3: CID: 17134 Links



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- 1: [Walker AR, Katzer F, Ngugi D, McKeever D.](#) Related Articles, Links  
 Cloned *Theileria parva* produces lesser infections in ticks compared to uncloned *T. parva* despite similar infections in cattle.  
 Onderstepoort J Vet Res. 2006 Jun;73(2):157-62.  
 PMID: 16958269 [PubMed - in process]
- 2: [Griffiths-Jones S.](#) Related Articles, Links  
 miRBase: the microRNA sequence database.  
 Methods Mol Biol. 2006;342:129-38.  
 PMID: 16957372 [PubMed - in process]
- 3: [Gotthardt D, Dieckmann R, Blancheteau V, Kistler C, Reichardt F, Soldati T.](#) Related Articles, Links  
 Preparation of intact, highly purified phagosomes from *Dictyostelium*.  
 Methods Mol Biol. 2006;346:439-48.  
 PMID: 16957306 [PubMed - in process]
- 4: [Filippov AK, Choi RC, Simon J, Barnard EA, Brown DA.](#) Related Articles, Links  
 Activation of P2Y1 nucleotide receptors induces inhibition of the M-type K<sup>+</sup> current in rat hippocampal pyramidal neurons.  
 J Neurosci. 2006 Sep 6;26(36):9340-8.  
 PMID: 16957090 [PubMed - in process]

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1: Identification of sex-specific transcripts of the Anopheles gambiae doublesex gene.

Scali C, Catteruccia F, Li Q, Crisanti A. J Exp Biol. Author manuscript; available in PMC 2006 April 1. PMID: 1350936 Manuscript: Abstract Full Text PDF-0.5M

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2: Speed of initial atropinisation in significant organophosphorus pesticide poisoning –a systematic comparison of recommended regimens.

Eddleston M, Buckley NA, Checketts H, Senarathna L, Mohamed F, Sheriff MR, Dawson A. J Toxicol Clin Toxicol. Author manuscript; available in PMC 2006 June 7. PMID: 1475556 Manuscript: Abstract Full Text PDF-86K

3: Characterization of Symmetric Complexes of Nerve Growth Factor and the Ectodomain of the Pan-neurotrophin Receptor, p75NTR.

Aurikko JP, Ruotolo BT, Grossmann JG, Moncrieffe MC, Stephens E, Leppänen VM, Robinson CV, Saarma M, Bradshaw RA, Blundell TL. J Biol Chem. Author manuscript; available in PMC 2006 March 30. PMID: 1352310 Manuscript: Abstract Full Text PDF-341K Supplementary Material

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# What next?

- Measure impact of mandate 4,000+ paper p.a. into UKPMC
- Uptake of open access options – change in prices/subscriptions
- NIH - moving towards a mandate
- RCUK and the Research Councils policy announced
- arc, MRC, BBSRC, BHF, DH have policies - CRUK working on policy
  
- EU policy statement by the end of 2006
  - ♦ Study on the economic and technical evolution of the scientific publication markets in Europe
  - ♦ ‘status quo not an option’
  - ♦ Guarantee public access to publicly funded research results shortly after publication

# What should funders do?

- Clear policy to mandate their researchers to deposit their papers
- Clear policy to provide the funding for open access publishing – make them part of research costs
- Support and/or create repositories provide clear advice to researchers and provide it again.
- Talk to publishers – this is key
- Open access data - integration

- Strategic Plan 2005 - 2010
- ↓ Policies and advocacy
  - Policies and positions
  - Spotlight issues
  - Submissions to consultations

## Open and unrestricted access to the outputs of published research

### OPEN AND UNRESTRICTED ACCESS TO THE OUTPUTS OF PUBLISHED RESEARCH

#### Policy summary

It is a fundamental part of our charitable [mission](#) to ensure that the work we fund can be read and utilised by the widest possible audience.

In support of this objective the Wellcome Trust [Grant Conditions](#) have been amended such that electronic copies of any research papers that have been accepted for publication in a peer-reviewed journal, and are supported in whole or in part by Wellcome Trust funding, must be deposited into PubMed Central (PMC) (or UKPMC once established). These papers will be made freely available via these web-based repositories as soon as possible, and in any event within six months of the journal publishers' official date of final publication.

This requirement applies to all grants, regardless of award date.

For further details, see the full [position statement](#) on open and unrestricted access to the outputs of published research, and the [Authors' Guide and FAQ](#).

#### Latest developments: September 2006

The Wellcome Trust, as part of a group of [UK research funders](#), has announced that the contract to run UK PubMed Central (UKPMC) has been awarded to a partnership between the British Library, The University of Manchester and the European Bioinformatics Institute (EBI).

Based on the [PMC](#) model currently used by the US National Library of Medicine at the National Institutes of Health, UKPMC will provide free, online access to the digital archive of published articles resulting from research paid for by any of the funding consortium. It will be fully searchable and extensively linked to other online resources.

Launch of the service is scheduled for January 2007. See the [press release](#) for further information.

Page last updated: 20th September 2006

#### See also

- ▶ [Open and unrestricted access to published research \(position statement\)](#)
- ▶ [Grant Conditions](#)
- ▶ [PubMed Central: Manuscript Submission](#)
- ▶ [Authors' guide and FAQ](#)
- ▶ [Publishers' guide and FAQ](#)
- ▶ [UKPMC project](#)
- ▶ ['Costs and Business Models in Scientific Research Publishing'](#)
- ▶ ['An Economic Analysis of Scientific Research Publishing'](#)
- ▶ [Open access newsletter](#)
- ▶ [A guide to open access \[PDF 113 KB\]](#)

#### External links

- ▶ [Arthritis Research Campaign](#)
- ▶ [Biotechnology and Biological Sciences Research Council](#)
- ▶ [British Heart Foundation](#)
- ▶ [Joint Information Systems Committee](#)
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