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| National Library of Medicine |
| Wiley-Blackwell Open Access Backfiles |
| 2009-2010 Fall Associate Fellowship Project |
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## Abstract

**Objective:** The objective of the project was to answer the following questions: (1) How many of the Wiley-Blackwell Open Access backfile titles are in PMC? and (2) If not in PMC, are they linked to PubMed citations via LinkOut?

**Methods**: A total of 104 Wiley-Blackwell Open Access backfile titles were analyzed for inclusion in PMC or linked to PubMed citations via LinkOut. The 104 journal titles included 64 unique titles, with the larger number representing title changes. 65 titles met the criteria for inclusion and were analyzed as to accessibility.A spreadsheet was developed to help answer the project questions. Resources used to populate the spreadsheet included: PubMed, PubMed Central, Journals database, NLM Catalog and LocatorPlus.

**Results:** Six Wiley-Blackwell Open Access titles, five current titles and one title change, have full participation in PubMed Central. A majority of non-PMC journal titles include a link to the Wiley-Blackwell Open Access full-text article via LinkOut.

**Conclusion:** While a majority of titles include links to full-text articles via LinkOut, the total percentage varies by journal title. Further discussion with Wiley-Blackwell is needed to increase the number of articles available via LinkOut or deposited in PubMed Central.

## Introduction

The Wiley-Blackwell Open Access backfiles is a list of certain Wiley-Blackwell journals available on Wiley InterScience, where all content prior to a given date is made free online to all.

PubMed Central (PMC) is a free digital archive of full-text biomedical and life sciences journal literature. PMC contains nearly 2 million articles, most of which have a corresponding entry in PubMed.Participation by publishers in PMC is voluntary, although participating journals must meet certain editorial standards**.** There are three levels of publisher agreement types in PMC: Full Participation (all content for a specified title is submitted), Selective Deposit (publisher submits at their discretion) and NIH Portfolio (publisher submits all NIH funded content).

The objective of the project was to answer the following questions:

1. How many of the Wiley-Blackwell Open Access backfile titles are in PMC?
2. If not in PMC, are they linked to PubMed citations via LinkOut?
3. If NLM doesn’t have copies, could we get them for PMC?

It was decided that due to timing, the third question would be handled as a separate project.

## Methodology

A spreadsheet was developed by Elizabeth Frost to manage a review of Open Access titles. Resources used to populate the spreadsheet included: PubMed, PubMed Central, Journals database, NLM Catalog and LocatorPlus. The following is a detailed explanation of each column in the spreadsheet.

***Journal Title***

The list of Wiley-Blackwell Open Access titles was retrieved from the publisher’s Website:

<http://www3.interscience.wiley.com/aboutus/open_access_options.html#OpenAccess_Backfiles>

The list on the site included 64 journal titles. These titles were searched in the Journals database. From the database, additional information was found by linking to the NLM Catalog record and the LocatorPlus catalog record. Additional journal titles were added to the list for title name changes.

***NLM ID and ISSN***

The NLM ID and ISSN (print) were recorded from the NLM Catalog and LocatorPlus records.

***Indexed in PubMed/MEDLINE***The results for this column were found in the “Fully indexed in:” field of the NLM Catalog record. If the journal was indexed in MEDLINE, the corresponding dates were recorded. Other results for this column include: “Not currently indexed for MEDLINE”, Publication dates (provided if no indexing dates were specified or it the title is no longer in print), “Not in catalog” (title is listed on either the Wiley-Blackwell site or as a previous title but has no individual catalog record), and “Not in PubMed” (the journal title is in LocatorPlus but not PubMed).

***In PMC Y/N?***

A “y” in this column was recorded if a PMC URL was included in the “Electronic Links” field in the NLM Catalog. The titles were also verified in the PubMed Central Journal List:

<http://www.ncbi.nlm.nih.gov/pmc/journals/>

***Open Access Content Available To All Users***

The Open Access column was retrieved from the Wiley-Blackwell Website.

***OA Date Range***  
This data was included to help prepare for the PubMed searches. From the Open Access available column, a date range was determined by subtracting from a start date of December 2009. Months were rounded up to years and the year 1900 was used if no back date was provided.

***Total Possible PubMed Citations***The Total Possible PubMed column was filled by searching PubMed using the following strategy:

ISSN[ta] AND OA date range[dp]

Example: 1395-3907[ta] AND 1997:2007[dp]

***Wiley-Blackwell Links***The Wiley-Blackwell Links column was filled by searching PubMed using the following strategy:

ISSN[ta] AND OA date range[dp] AND (loprovblackwell[filter] OR loprovwiley[filter])

Example:

1395-3907[ta] AND 1997:2007[dp] AND (loprovblackwell[filter] OR loprovwiley[filter])

***PMC Links***  
The PMC Links column was filled by searching PubMed using the following strategy:

ISSN[ta] AND OA date range[dp] AND loprovpmc[sb]

## Results

***Question 1:***

***How many of the Wiley-Blackwell Open Access backfile titles are in PMC?***

Six titles, five current titles and one title change, have full participation in PubMed Central. Full participation means the publisher deposits the complete contents of each issue for that title in PMC. The six titles had 78.6% to 98.9% of all citations in PubMed linked to a full-text article in PMC.

| **Journal Title** | **Open Access Content Available to all Users** | **Total Possible PubMed Citations** | **PMC Links** | **% of PMC links from PubMed** |
| --- | --- | --- | --- | --- |
| British Journal of Clinical Pharmacology | Content older than 1 year | 8446 | 7941 | 94% |
| Clinical & Experimental Immunology | Content older than 1 year | 12376 | 12230 | 98.8% |
| Immunology | Content older than 1 year | 10836 | 10717 | 98.9% |
| Journal of Anatomy | Content older than 2 years | 7870 | 7142 | 90.7% |
| Journal of Anatomy and Physiology (continued by Journal of Anatomy) | Content older than 2 years | 2378 | 2295 | 96.5% |
| The Journal of Physiology | Content older than 1 year | 34019 | 26754 | 78.6% |

***Question 2:***

***If not in PMC, are they linked to PubMed citations via LinkOut?***

The original list of 64 journal titles expanded to 104 titles with various title changes. To look at PubMed citations with links to the full-text article, the journal titles with zero PubMed citations and PMC titles were taken out of the calculation. The list of 104 titles was decreased to 65 titles. The new list was made up of journals with PubMed citations and within the Wiley-Blackwell Open Access date range.

104 titles minus titles with 0 PubMed citations and PMC titles:

8 titles not currently indexed for MEDLINE

5 titles not in Catalog

6 titles not in PubMed

6 titles not indexed with publication dates outside OA date range

8 titles outside OA date range

6 PMC titles

= 65 titles

For these 65 titles, 74.5% of the article citations included a link to the Wiley-Blackwell site. The journal titles ranged from 0% links (7 titles) to 100% links (12 titles). A majority of the titles (55%) had greater than 90% of the citations linked to full-text articles.

See the attached spreadsheet for detailed title information.

## Discussion

Many of the low LinkOut percentages occurred with previous titles. Of the 18 titles with less than 70% article links, 9 titles were not listed as previous titles on the Wiley-Blackwell site but listed in LocatorPlus as a previous title of a Wiley-Blackwell Open Access title.

The project provided an opportunity to become skilled in several NLM products including: Journals database, NLM Catalog, PubMed, PubMed Central and LocatorPlus. The next step for this project is to work with Wiley-Blackwell to increase the percentage of free full-text articles either through creating links via LinkOut or submission into PubMed Central.