October 25, 2012

Understanding and Complying

The NIH Public Access Policy

U.S.Department of Health & Human Services

National Institutes of Health Public Access
The Public Access Policy ensures that the public has access to the published results of NIH funded research to help advance science and improve human health.

BU | Alumni Medical Library

The Law says…

The **NIH Public Access Policy** requires that all investigators funded by the NIH, submit or have submitted for them to the National Library of Medicine's PubMed Central (**PMC**), an electronic version of their final, peer-reviewed manuscripts upon acceptance for publication, to be made publicly available no later than 12 months after the official date of publication.

Division G, Title II, Section 218, PL 110-161 (Consolidated Appropriations Act, 2008)

In a nutshell…
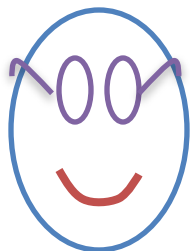
$$$

NATIONAL INSTITUTES OF HEALTH

If your hard work

Peer Reviewed Journal

appears here

PubMed Central

that same article must also somehow get here too

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PubMed Central(PMC)?

PubMed.gov
U.S. National Library of Medicine
National Institutes of Health

Citation database

Citations assigned a **PMID**

Over **22 million** citations from journals indexed by PubMed

PubMed Central

Repository of **full-text** biomedical works from books and journals

Works assigned a **PMCID**

Over **2.5 million** full-text works

Pub**Med**.gov
US National Library of Med
National Institutes of Heal

Search

Help

PMID is *NOT* PMCID

Text **FREE**
er Res

FREE Author Manuscript
in PubMed Central

Overexpression of DPAGT1 leads to aberrant N-glycosylation of E-cadherin and cellular discohesion in oral cancer.

Nita-Lazar M, Noonan V, Rebustini I, Walker J, Menko AS, Kukuruzinska MA.

Department of Molecular and Cell Biology, Boston University Medical Center, Boston, Massachusetts 02118, USA.

Abstract

Cancer cells are frequently characterized by aberrant increases in protein N-glycosylation and by disruption of E-cadherin-mediated adherens junctions. The relationship between altered N-glycosylation and loss of E-cadherin adhesion in cancer, however, remains unclear. Previously, we reported that complex N-glycans on the extracellular domains of E-cadherin inhibited the formation of mature adherens junctions. Here, we examined whether dysregulated N-glycosylation was one of the underlying causes for cellular discohesion in oral cancer. We show that dense cultures of human salivary epidermoid carcinoma A253 cells exhibited elevated expression of DPAGT1, the gene that initiates protein N-glycosylation. Overexpression of DPAGT1 correlated with the production of E-cadherin-bearing complex N-glycans in nascent adherens junctions. Partial inhibition of DPAGT1 with small interfering RNA reduced the complex N-glycans of E-cadherin and increased the abundance of alpha-catenin and stabilizing proteins in adherens junctions. This was associated with the assembly of functional tight junctions. The inverse relationship between DPAGT1 expression and intercellular adhesion was a feature of oral squamous cell carcinoma. Oral squamous cell carcinomas displayed overexpression of DPAGT1 that correlated with diminished localization of E-cadherin and alpha-catenin at the sites of adherens junctions. Our studies show for the first time that DPAGT1 is an upstream regulator of E-cadherin N-glycosylation status and adherens junction composition and suggest that dysregulation of DPAGT1 causes disturbances in intercellular adhesion in oral cancer.

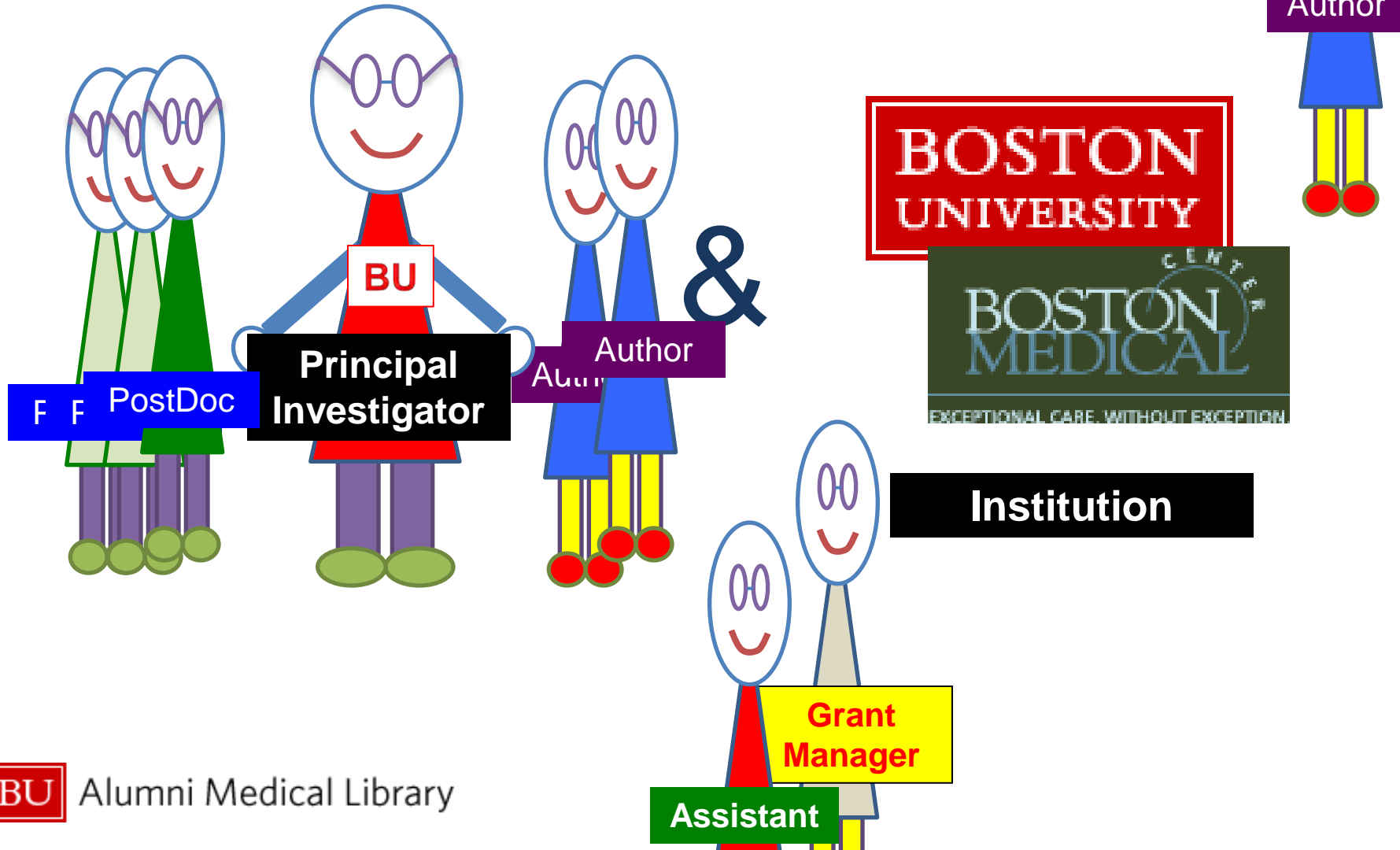PMID: 1954990 [PubMed - indexed for MEDLINE] PMCID: PMC277119 **Free PMC Article**

Images from this publication. See all images (5) Free text ▾

⊟ **Publication Types, MeSH Terms, Substances, Grant Support**

Publication Types
Research Support, N.I.H., Extramural

Related citations

Hypoglycosylated E-cadherin
promotes the ass [Exp Cell Res. 2010]

N-glycosylation gene DPAGT1 is a
target of the Wnt/ [J Biol Chem. 2010]

N-glycosylation affects the adhesive
function of E-C [J Cell Biochem. 2008]

Slit-2 facilitates interaction of P-
cadherin with F [Carcinogenesis. 2011]

Inhibition of Akt activity induces the
mesen [J Exp Clin Cancer Res. 2009]

See reviews..

See all..

Cited by 4 PubMed Central articles

N-glycosylation gene DPAGT1 is a
target of the Wnt/ [J Biol Chem. 2010]

N-glycosylation status of E-cadherin
controls [Cell Health Cytoskelet. 2009]

Hypoglycosylated E-cadherin
promotes the ass [Exp Cell Res. 2010]

See all..

Who's responsible?

Author

PostDoc

F F

BU

Principal Investigator

Author

Author

&

BOSTON UNIVERSITY

BOSTON MEDICAL CENTER

EXCEPTIONAL CARE. WITHOUT EXCEPTION

Institution

Grant Manager

Assistant

NIH Policy has two parts:

1. Manuscript *Submission*

2. Manuscript *Citation*

How to comply?

Part I

Manuscript *Submission*

How to Submit? → 4 methods

National Institutes of Health Public Access

The Public Access Policy ensures that the public has access to the published results of NIH funded research to help advance science and improve human health.

Home

1. Determine Applicability

2. Address Copyright

3. How do I submit my paper to PMC?

4. Include PMCID in Citations

Identify Submission Method

Policy Details

Training/Communications

Glossary/FAQs

For Sponsored Programs

For NIH Employees
- For NIH Employee Authors
- For NIH Extramural Staff (NIH Access Only)

Contact Us

Submission Methods

There are four methods to ensure that an applicable paper is submitted to PubMed Central (PMC) in compliance with the NIH Public Access Policy. Authors may use whichever method is most appropriate for them and consistent with their publishing agreement. Click on the method in the table for details. Use the box on the left to help determine which submission method to use for your journal.

Overview of Submission Methods

	Method A	Method B	Method C	Method D
	Journal deposits final published articles in PubMed Central without author involvement	Author asks publisher to deposit specific final published article in PMC	Author deposits final peer-reviewed manuscript in PMC via the NIHMS	Author completes submission of final peer-reviewed manuscript deposited by publisher in the NIHMS
Version of Paper Submitted	Final Published Article	Final Published Article	Final Peer-Reviewed Manuscript	Final Peer-Reviewed Manuscript
Task 1: Who starts the deposit process?	Publisher	Publisher	Author or designee, via NIHMS	Publisher
Task 2: Who approves paper for processing?	Publisher	Publisher	Author, via NIHMS	Author, via NIHMS
Task 3: Who approves paper for Pub Med Central display?	Publisher	Publisher	Author, via NIHMS	Author, via NIHMS
Participating journal/publisher	Method A Journals	Make arrangements with these publishers	Check publishing agreement	Make arrangements with these publishers

http://publicaccess.nih.gov/submit_process.htm

Differences are…

Who does it?

What to PMC?

Publisher

OR

You

Article

OR

Manuscript

Contract *via*

These tend to be decided by publishers.

Be aware of addendum

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What to PMC & **How** to PMC

Published **article**

1000+ PMC Journals

express →

PubMed Central

PMC ID

Final Peer reviewed **manuscript**

via →

NIHMS

NIHMS ID

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What?! NIHMS?!

http://www.nihms.nih.gov/

NIH Manuscript Submission System

Must Tell about Embargo!

Back to Method A,B,C,D:

Method A	Method B	Method C	Method D
PMC Journal	**$$$**		
Published Article	**Published Article**	**Peer-reviewed Manuscript**	**Peer-reviewed Manuscript**
Publisher starts process	*Publisher* starts process	*Someone* starts process to **NIHMS**	*Publisher* starts process to **NIHMS**
Publisher approves files	*Publisher* approves files	*Author* approves uploaded files	*Author* approves uploaded files
Publisher approves web format	*Publisher* approves web format	*Author* approves web format to **PMC**	*Author* approves web format to **PMC**

NIHMS will email you.

Remember, Contract checkbox

Don't forget to check the box.

Author

FUNDING

☐ No funding was received for the research reported in the article

☐ The research reported in the article was funded by the US National Institutes of Health
Note that for NIH employee-authors, the Publisher and NIH have agreed the form of a "Cover Sheet" which is also available on www.elsevier.com and which is incorporated here by reference.

Remember!

Please Do Not Ignore Emails from NIHMS.

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YJ

Not always checkbox

Depositing Manuscripts in NIH Repository

We would permit an author to submit un-copyedited manuscripts to PMC...

PubMed (http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?CMD=search&DB=pubmed) following indexing. This article may not be duplicated or reproduced, other than for personal use or within the rule of "Fair Use of Copyrighted Materials" (section 107, Title 17, U.S. Code) without permission of the copyright holder, the Frontiers in Bioscience. From the time of acceptance following peer review, the full final copy edited article of this manuscript will be made available at http://www.bioscience.org/. The Frontiers in Bioscience disclaims any responsibility or liability for errors or omissions in this version of the un-copyedited manuscript or in any version derived from it by the National Institutes of Health or other parties."

Following publication of manuscript in PMC, it is the author's responsibility to provide the final URL of the manuscript in an E-mail to fbs@bioscience.org.
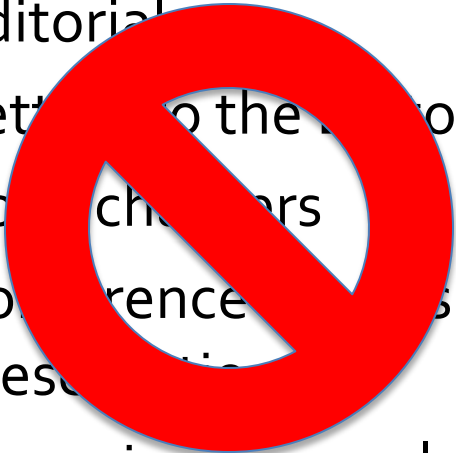
The policy ONLY applies to…

YES

Peer Review**ed**
Journal **Article**

NO

Editorial

Letter to the editor

Book chapters

Conference posters and/or
presentations

Magazine or popular press
articles

How to comply?

Part II

Manuscript *Citation*

PI needs PM ID

Citations noted in NIH applications, proposals and progress reports must include PMCID (PubMed Central Reference Number)

> **Reminder Concerning Grantee Compliance with Public Access Policy and**
> **Related NIH Monitoring Activities** (NOT-OD-08-119):
> **http://grants.nih.gov/grants/guide/notice-files/NOT-OD-08-119.html**

An email you want to avoid

Dear Principal Investigator,

Your recent progress report submission identified papers that have resulted from your NIH award. It appears that the following papers have not yet been submitted for upload to PubMed Central and may be out of compliance with the NIH Public Access Policy.

Compliance starts *BEFORE* publication.

The full text should be publicly available no later than *12 months* after the publication.

But, submittal to PMC should be made upon *ACCEPTANCE* of publications.

If your manuscript is accepted today (October 2012) to be published in October 2013 …

Citation example:

Nita-Lazar M, Noonan V, Rebustini I, Walker J, Menko AS, Kukuruzinska MA. Overexpression of DPAGT1 leads to aberrant N-glycosylation of E-cadherin and cellular discohesion in oral cancer. Cancer Res 2009; 69 (14): 5673-5680. **PMCID: PMC243493**

NIHMS 118407

For 90 Days

If Method A journals

"PMC Journal – In Process"

Useful Tools

NIH Public Access Policy:

http://publicaccess.nih.gov/index.htm

Sherpa-Romeo:

http://www.sherpa.ac.uk/romeo/

PMID PMCID Converter:

http://www.ncbi.nlm.nih.gov/sites/pmctopmid

AML:

http://medlib.bu.edu/faculty/nih_policy.cfm

That's all good, but…

What do I do with *OLD* NON-Compliant articles?

There are so many of them…

You

You

Please contact us:

Location of journal policies

My NCBI, My Bibliography & eRA Commons hands-on training

Assistance with documentation of compliance (Biosketch)

Use of Tools

YJ
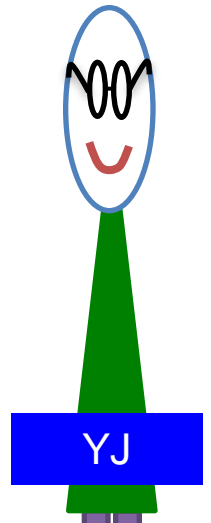
Crystal Clear?

The **NIH Public Access Policy** requires that all investigators funded by the NIH, submit or have submitted for them to the National Library of Medicine's PubMed Central (**PMC**), an electronic version of their final, peer-reviewed manuscripts upon acceptance for publication, to be made publicly available no later than 12 months after the official date of publication.

Division G, Title II, Section 218, PL 110-161 (Consolidated Appropriations Act, 2008)

QUIZ TIME

When is Compliance Required?

The Policy applies to any work that is accepted for publication in a journal on or after April 7, 2008

http://publicaccess.nih.gov/FAQ.htm

Let's say **2%** of PI's salary is funded by a **NIH** grant, then...

→ **Any papers originated from the grant (which pays 2% of salary) is subject to the Policy.**

→ **All other research (98% of PI's salary is funded) is NOT.**

Contact me for Qs on NIH Public Access Policy

Kathryn Mellouk
Executive Director
Research Integrity &
Assurance
kateski@bu.edu

NIHMS ID is effective for…

90 days

Sneak Preview

NIH PAP Workshop

December 19
CRRO Clinical Research
Seminar

Methods of Citation Mgmt:
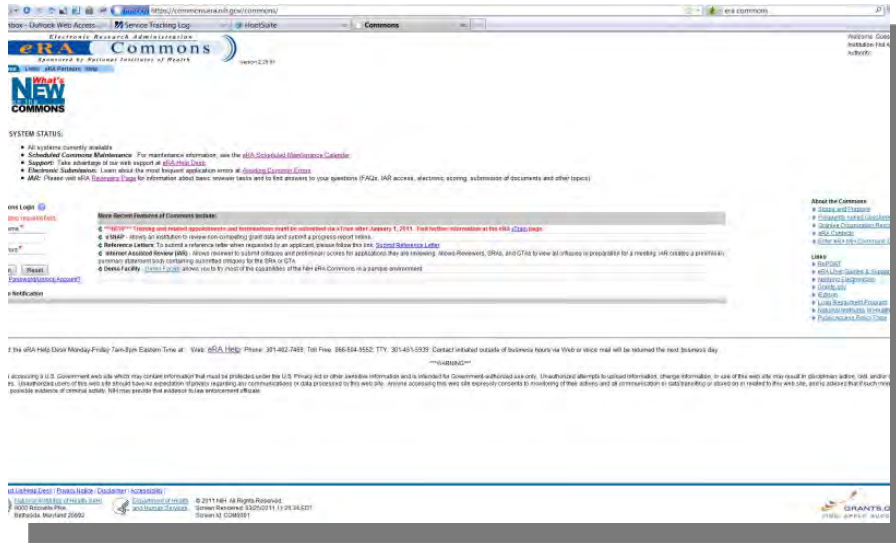
eRA Commons
Used by PI
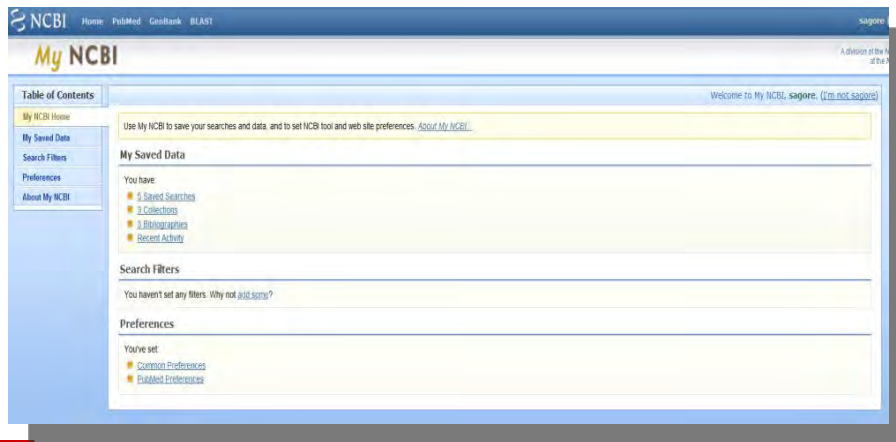
My NCBI
Used by Delegate
(also by PI)

If you're a PI

My NCBI linked

My NCBI — My Bibliography

See all collections | My Bibliography help

Display Settings: ☑ Award view, Sort by public access compliance, group by citation type

Select: All, None   0 items selected

PI's name will be here if in a delegate's account

My Bibliography: Award View

Journal Articles

1: ☐ Naeser MA, Martin PI, Treglia E, Ho M, Kaplan E, Bashir S, Hamilton R, Coslett HB, Pascual-Leone A. Research with rTMS in the treatment of aphasia. Restor Neurol Neurosci. 2010;28(4):511-29. Review. PubMed PMID: 20714075.

   ⑦ Public Access Compliance: Edit Status
   NIH Funding: No funding has been associated with this citation.

2: ☐ Mattison ML, Afonso KA, Ngo LH, Mukamal KJ. Preventing potentially inappropriate medication use in hospitalized older patients with a computerized provider order entry warning system. Arch Intern Med. 2010 Aug 9;170(15):1331-6. PubMed PMID: 20696957.

   ⑦ Public Access Compliance: Edit Status
   NIH Funding: No funding has been associated with this citation.

3: ☐ Fontana RJ, Dienstag JL, Bonkovsky HL, Sterling RK, Naishadham D, Goodman ZD, Lok AS, Wright EC, Su GL; HALT-C Trial Group. Serum fibrosis markers are associated with liver disease progression in non-responder patients with chronic hepatitis C. Gut. 2010 Oct;59(10):1401-9. Epub 2010 Jul 30. PubMed PMID: 20675691.

   ⑦ Public Access Compliance: Edit Status
   NIH Funding: No funding has been associated with this citation.

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Compliance Status:

- A red dot indicates that an article is **non-compliant**.

  > 🔴 Public Access Compliance: Non-compliant. Citation not in NIHMS or PMC
  > NIH Funding: No funding has been associated with this citation.

- A yellow dot means that the citation has been submitted to the NIH Manuscript Submission system and is considered **in process**.

  > 🟡 Public Access Compliance: PMC Journal – In Process
  > NIH Funding: No funding has been associated with this citation.

- A green dot indicates that the citation is **compliant** with the NIH Public Access Policy. Note that the PMCID number displays in this status.

  > 🟢 Public Access Compliance: Complete. PMCID: PMC2632597
  > NIH Funding: No funding has been associated with this citation.

- Articles that were accepted for publication prior to April 7, 2008 are not covered by the NIH Public Access Policy. These citations will be marked as N/A for **Not Applicable** (this status is also automatically applied to citation types that are not journal articles, e.g., book chapters, patents, presentations).

  > N/A Public Access Compliance: Not applicable
  > NIH Funding: No funding has been associated with this citation.

- A question mark indicates that compliance with the NIH Public Access Policy cannot be determined without additional information. Click on the question mark icon or the "Edit Status" link to enter supporting information for the citation.

  > ⃝? Public Access Compliance: Edit Status
  > NIH Funding: No funding has been associated with this citation.

Response to NIH

Alumni Medical Library

Lori's Tracking System

A	B	C	D	E	F	
Article	**Journal**	**Pub Year**	**Vol/Issue/Pg**	**PMCID assigned**	**PMCID #/NA Reason**	**Jet**
A computer adaptive disability instrument for lower extremity	Journal of Clinical Epidemiology	2009	62 (8): 779-780	Yes	PMC3328293	x
A functional difficulty and functional pain instrument for	Arthritis Research & Therapy	2009	11(4), R107	Yes	PMC2745788	x
A longitudinal comparison of five preference-weighted	Medical Decision Making	2010	31(2):270-80	Pending	FU w Christine re: NIHMS direct	x
A multidimensional computer adaptive test approach to	Archives of Physical Medicine and Rehabilitation	2011	92: 1561-1569	Pending	M. Lewis @ Archives will	x
A telerehabilitation intervention for persons with	American Journal Physical Medicine & Rehabilitation	2011	90(9):756-64	NA	US Govt PHS; CDC (HHS, but	x
Achieving meaningful measurements of ICF	Disability and Rehabilitation	2008	30(12-13): 963-969	NA	US Govt Non PHS; NIDRR, US	x
Adverse events associated with testosterone	New England Journal of Medicine	2010	363 (2): 109-122	Yes	PMC3440621	x
Adverse events reported in progressive resistance	Archives of Physical Medicine and Rehabilitation	2010	91(9):1471-3	NA	US Govt Non PHS; NIDRR, US	
An Examination of Healthy Aging across a Conceptual	Journal of Gerontology: Medical Sciences	2012	Jun; 67(7):783-9	Pending	Per A. Paskins, OUP will deposit if	x
An exploratory analysis of	Archives of Physical	2008	89(6), 1046-	Yes	PMC2677141	

Until then…

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617-638-9183

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Refquest@bu.edu

617-638-4228

Thank you!

Special thanks to:

Tasha Watson

   Data Coordinating Center

Lori Goehring, **Ken Rask** & **Cynthia Korhonen**, *SPH*

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 Washington University Medical School

Sally Gore

 U Mass Worcester Medical School

P. Scott Lapinski

 Harvard Medical School