



# Is there an API for that?

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What's new in Editorial Online Systems  
STM E-Production Seminar 2012

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eJournalPress



*Peer Review  
and  
Production  
Tracking  
Systems for  
Innovators*

# Integration

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- Variety has become the modus operandi
- Publishers expect innovative integration between online editorial systems and other initiatives, tools, and platforms
- Common implementation motivation



# Is there an API for that?

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- Application Programming Interface (API)
- Specification used by software companies/components to communicate
- What's included varies based on the systems which will interact and the data that should be communicated



# Some Recent Integrations

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- FundRef
- ORCID
- Data Harmony



# FundRef

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- FundRef is a collaborative pilot project of scholarly publishers and funding agencies, facilitated by CrossRef, to provide a standard way of reporting funding sources for published scholarly research.<sup>1</sup>



# FundRef Submission Question

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Funding Body Archiving Mandates



Please Enter Funding Body Archiving Mandates

Funder(s) *	Grant Reference Number *	Principal Investigator First Name *	Last Name *	Email Address *	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>



# Auto-completion

**Funding Body Archiving Mandates** Please Enter Funding Body Archiving Mandates

**Funder(s) \*** **Grant Reference Number \*** **Principal Investigator First Name \*** **Last Name \*** **Email Address \***

Funder(s) *	Grant Reference Number *	Principal Investigator First Name *	Last Name *	Email Address *	
cancer					Clear
Wipe Out Kids' Cancer (WOKC)					Clear
The Sharon Roberts Cancer Foundation					Clear
Prostate Cancer Foundation (PCF)					Clear
Child Cancer Foundation					Clear
Breast Cancer Help, Inc.					Clear
Breast Cancer Research Foundation (BCRF)					Clear
Lung Cancer Online Foundation (LCOF)					Clear
Breast Cancer Campaign					Clear
Celma Mastry Ovarian Cancer Foundation (CMOCF)					Clear
Kidney Cancer Association (KCA)					
North West Cancer Research Fund (NWCRF)					
Institute for Myeloma & Bone Cancer Research (IMBCR)					
Cancer Council Queensland					
Brian Piccolo Cancer Research Fund					
Australian Cancer Research Foundation (ACRF)					
Breast Cancer Research Trust (BCRT)					
Prostate Cancer Charity					
CURE Childhood Cancer (CURE)					
Skin Cancer Foundation					
International Association for the Study of Lung Cancer					

**Manuscript Comment**

OW.

Back Save and Exit Next





# Hierarchical Data / Parent Organizations

Parent Organization's "Short Name" pre-pended

**Funding Body Archiving Mandates**

Please Enter Funding Body Archiving Mandates

Funder(s) *	Grant Reference Number *	Principal Investigator First Name *	Last Name *	Email Address *	
nsf	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
NSF   BIO   Division of Molecular and Cellular Biosciences ( MCB)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
NSF   BIO   Division of Integrative Organismal Systems ( IOS)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
NSF   SBE   Division of Behavioral and Cognitive Sciences ( BCS)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
National Stroke Foundation (NSF)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
NSF   ENG   Division of Chemical, Bioengineering, Environmental, and Transport Systems ( CBET)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
NSF   Directorate for Social, Behavioral and Economic Sciences ( SBE)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
NSF   BFA   Division of Grants and Agreements ( DGA)	<input style="width: 100%; height: 100%;" type="text"/>				
NSF   Directorate for Education and Human Resources ( EHR)					
NSF   National Science Board ( NSB)					
NSF   SBE   SBE Office of Multidisciplinary Activities ( SMA)					
NSF   Office of Integrative Activities ( OIA)					
NSF   BFA   Division of Acquisition and Cooperative Support ( DACS)					
NSF   Directorate for Mathematical and Physical Sciences ( MPS)					

**Manuscript Comment**

Back
Save and Exit
Next



# Configuration Screens

- Journal Staff FundRef configuration screen
  - Allows for download of latest FundRef XML file on demand
  - Local database updated to reflect FundRef XML file changes

Please click on the button below to load the latest FundRef funding sources.

Update FundRef Data

Cancel

Retrieving FundRef data from <http://data.elsevier.com/vocabulary/bulk/SciValFunders>  
Retrieved [c:/temp/rdf.zip] from [<http://data.elsevier.com/vocabulary/bulk/SciValFunders>].  
Unzipped [c:/temp/rdf.zip].  
Found zip member named [allFundRef.rdf] in [c:/temp/rdf.zip].  
Created [c:/temp/all\_fund\_ref.rdf] from c:/temp/rdf.zip [allFundRef.rdf].  
Parsing RDF/XML data file.  
Found 4572 funding sources.  
Loading funding sources from database.  
Loaded 1901 funding sources from database.  
Found 2671 funding sources to add to the database.  
Found 0 funding sources to deactivate in the database.  
Added 0 funding sources to the database.  
Added 100 funding sources to the database.  
Added 200 funding sources to the database.  
Added 300 funding sources to the database.  
Added 400 funding sources to the database.  
Added 500 funding sources to the database.  
Added 600 funding sources to the database.  
Added 700 funding sources to the database.  
Added 800 funding sources to the database.  
Added 900 funding sources to the database.  
Added 1000 funding sources to the database.



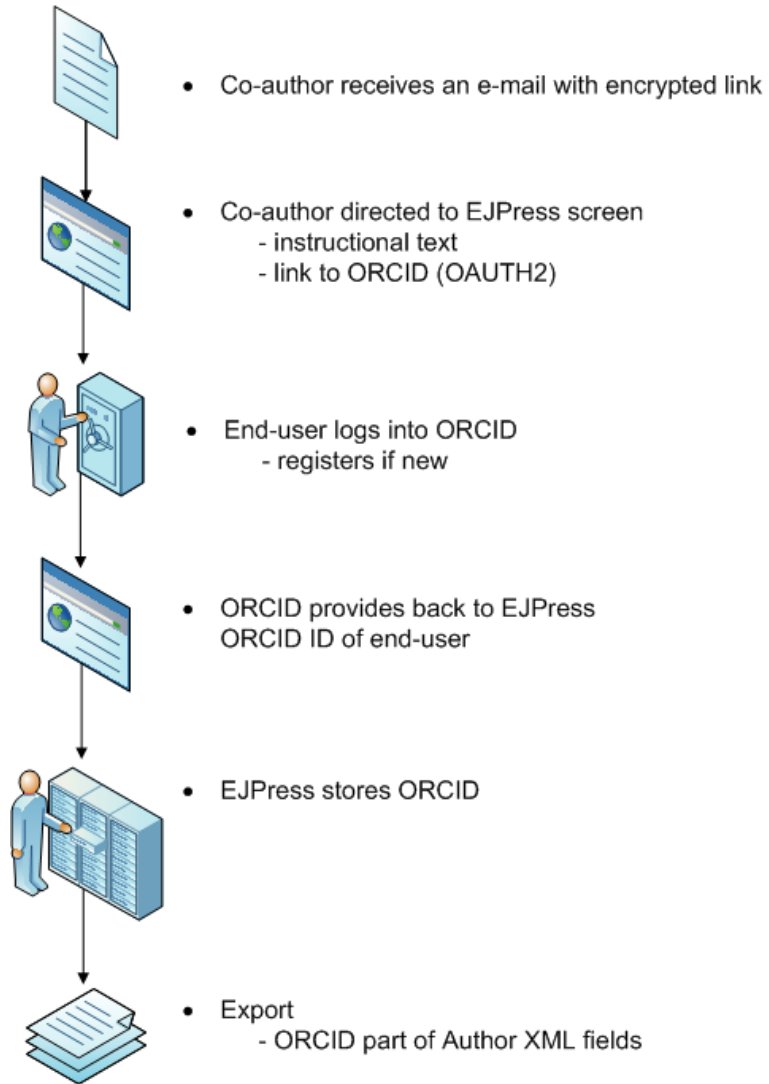
# ORCID

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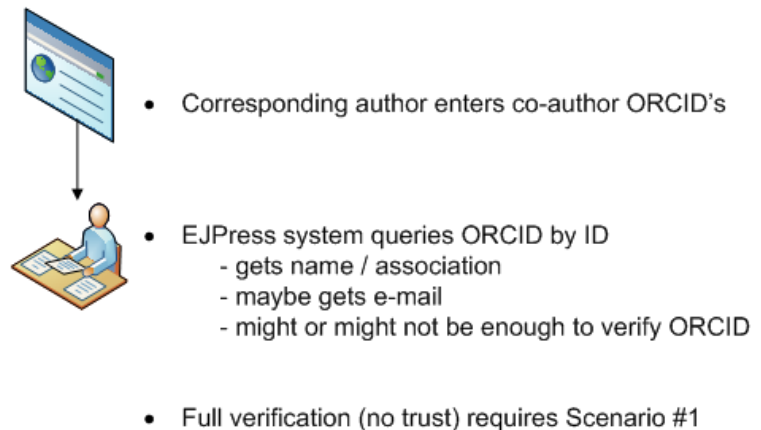
ORCID is an open, non-profit, community-based effort to create and maintain a registry of unique researcher identifiers and a transparent method of linking research activities and outputs to these identifiers.<sup>2</sup>



## Scenario 1 - Corresponding author does NOT know ORCID's



## Scenario 2 - Corresponding author knows ORCID's




# Data Harmony

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- “... provides knowledge management solutions to organize your information resources, based on a well-built and systematically applied taxonomy or thesaurus.”<sup>3</sup>



# Data Harmony Integration

Details	Files	Tasks	History	E-Mails (0 Latest: N/A)	Notes (3)
 <b>Manuscript #</b>	AACRDEMO-11-0018				
<b>Current Revision #</b>	0				
<b>Submission Date</b>	2011-08-30 09:09:48				
<b>Current Stage</b>	Initial QC Started				
<b>Title</b>	Sugar reactivate happiness gene				
<b>Manuscript Type</b>	Research Article				
<b>Special Section</b>	N/A				
<b>Corresponding Author</b>	<a href="#">Dr. James Chase (EJP)</a> , submitted by Staff				
<b>Contributing Authors</b>	<a href="#">Dr. Laura White</a> , <a href="#">Dr. George Harrison</a>				
<b>Abstract</b>	R-Can Eating Real Sugar Slow the Growth of Cancer Cells				
<b>Scientific Editor</b>	N/A				
<b>Deputy/Senior Editor</b>	N/A				
<b>Potential Reviewers (assigned)</b>	N/A				
<b>Reviewers</b>	N/A				
<b>Suggested Reviewers to Include</b>	N/A				
<b>Suggested Reviewers to Exclude</b>	N/A				
<b>Keywords</b>	Organ Sites and Tumor Types: AIDS-related malignancies, Organ Sites and Tumor Types: Brain/central nervous system cancers				
<b>Scientific Editor Recommendation</b>	Reject				
<b>AACR Member</b>	N/A				
<b>Disclosure of Chemical Structures</b>	5				
<b>Cell Line Authentication</b>	5				
<b>Statement of Significance</b>	5				
<b>Reviewed by Other AACR Journals</b>	5				
<b><a href="#">Data Harmony Terms</a></b>					

Please click on the button below to begin the Data Harmony term search.



# Data Harmony

- Searching:
  - Type terms
  - Choose from selection list
- Submit selected terms

**Index your content**  
Select thesaurus terms from the below list. You can also use the search box or the thesaurus hierarchy view to search for terms and add them to your list.

**Suggested Thesaurus Terms**

**Search**  
Type a term (use \* for matching, ex. Abdom\*) and presse Enter

cells

myeloid progenitor cells[add](#)  
NIH 3T3 cells[add](#)  
Natural killer cells[add](#)  
Neoplastic cells[add](#)  
Neoplastic stem cells[add](#)  
Neuroendocrine cells[add](#)  
PC12 cells[add](#)  
Plasma cells[add](#)  
Red blood cells[add](#)  
Spindle cells[add](#)  
Stem cells[add](#)  
Stromal cells[add](#)  
Th1 cells[add](#)  
Th2 cells[add](#)  
U937 cells[add](#)  
Vero cells[add](#)  
White blood cells[add](#)

**AACR Thesaurus Hierarchy View**  
Click on any term to select it


- Anatomy
- Biomarkers
- Carcinogenesis
- Chemistry
  - Biochemistry
  - Chemicals**
  - Hydrogen-ion concentration
  - Organic chemistry
  - Pharmaceutical chemistry
- Clinical research
  - Clinical trials
    - Gene therapy clinical trials
    - MRC PR03 clinical trials
    - Multicenter studies
    - Placebos
    - Randomized controlled trials
  - Hematology
  - Pathology
  - Peer review
  - Prognosis
- Epidemiology
- Experimental therapeutics
- Health care
- Immunology
- Methods and research
- Molecular biology
- Oncology
- Prevention
- Radiobiology
- Tumor biology
- Tumors by site
- Tumor types

**Selected Terms**

Viable cells [delete](#)  
Peer review [delete](#)  
Chemicals [delete](#)



# Data Harmony Interactive Results

AACRDEMO-11-0019		Andrew Godwin	Waiting for Potential Reviewer Assignment	Aryl hydrocarbon receptor, AhR, activation promote...	
Details	Files	Tasks	History	E-Mails (5 Latest: 2011-07-08)	Notes (1)
 <b>Manuscript #</b>	AACRDEMO-11-0019				
<b>Current Revision #</b>	0				
<b>Submission Date</b>	2011-07-08 13:21:00				
<b>Current Stage</b>	Waiting for Potential Reviewer Assignment				
<b>Title</b>	Aryl hydrocarbon receptor, AhR, activation promotes retinoic acid-induced differentiation of myeloblastic leukemia cells by restricting expression of the stem cell transcription factor				
<b>Running Title</b>	Aryl hydrocarbon receptor				
<b>Manuscript Type</b>	In the Spotlight - Invited				
<b>Commissioned Due Date</b>	2012-01-04				
<b>Special Section</b>	N/A				
<b>Category</b>	Clinical Research				
<b>Corresponding Author</b>	<a href="#">Andrew K. Godwin (AACR)</a> , submitted by Staff				
<b>Contributing Author</b>	<a href="#">Dr. Uma Stewart</a>				
<b>Abstract</b>	Aryl hydrocarbon receptor ...				
<b>Précis</b>	This is a very ....				
<b>Staff</b>	<a href="#">EJP Staff</a>				
<b>Scientific Editor</b>	<a href="#">Karen E. Knudsen</a>				
<b>Deputy/Senior Editor</b>	<a href="#">Lisa M. Coussens</a>				
<b>Potential Reviewers (assigned)</b>	<a href="#">Alois Kozubik #1</a> (Status: Not Contacted)				
<b>Reviewers</b>	N/A				
<b>Suggested Reviewers to Include</b>	<a href="#">Olga Hopkins (OH)</a> , <a href="#">Uma Lehigh (UL)</a>				
<b>Suggested Reviewers to Exclude</b>	N/A				
<b>Keywords</b>	Organ Sites and Tumor Types: Organ Sites and Tumor Types, Organ Sites and Tumor Types: Brain/central nervous system cancers, Organ Sites and Tumor Types: Breast cancer, Organ Sites and Tumor Types: Gastrointestinal cancers: colorectal, Organ Sites and Tumor Types: Gastrointestinal cancers: liver				
<b>Submission Payment Agreement</b>	Yes				
<b>Scientific Editor Recommendation</b>	Reject				
<b>Page Charge Agreement</b>	Yes				
<b>AACR Member</b>	N/A				
<b>Color Figure Reproduction Charges</b>	My manuscript does not contain any color figures				
<b>Disclosure of Chemical Structures</b>	5				
<b>Cell Line Authentication</b>	5				
<b>Statement of Significance</b>	I feel like I've answered this question somewhere else				
<b>Reviewed by Other AACR Journals</b>	No				
<b>Data Harmony Terms</b>	Asbestos Formaldehyde Environmental carcinogenesis Chemistry Anatomy Biomarkers Tumor biology Radiation-activated signaling pathways (Interactive)				





# Data Harmony Automatic Results

Details	Files	Tasks	History	E-Mails (0 Labels: N/A)	Notes(1)
<b>Manuscript #</b>	AACRDEMO-11-0049				
<b>Current Revision #</b>	0				
<b>Submission Date</b>	2012-11-13 16:47:13				
<b>Current Stage</b>	Initial QC Started				
<b>Title</b>	Negative regulation of YAP by LATS1 underscores evolutionary conservation of the Drosophila Hippo pathwayGOOGLE				
<b>Running Title</b>	Data Harmony Test				
<b>Manuscript Type</b>	Research Brief				
<b>Special Section</b>	N/A				
<b>Category</b>	Cell, Tumor, and Stem Cell Biology				
<b>Corresponding Author</b>	<a href="#">Bob Smith (Any Association)</a> , submitted by Staff				
<b>Contributing Author</b>	N/A				
<b>Abstract</b>	<p>The Hippo pathway defines a novel signaling cascade regulating cell proliferation and survival in Drosophila, which involves the negative regulation of the transcriptional coactivator Yorkie by the kinases Hippo and Warts. We have recently shown that the human ortholog of Yorkie, YAP, maps to a minimal amplification locus in mouse and human cancers, and that it mediates dramatic transforming activity in MCF10A primary mammary epithelial cells. Here, we show that LATS proteins (mammalian orthologs of Warts) interact directly with YAP in mammalian cells and that ectopic expression of LATS1, but not LATS2, effectively suppresses the YAP phenotypes. Furthermore, shRNA-mediated knockdown of LATS1 phenocopies YAP overexpression. Because this effect can be suppressed by simultaneous YAP knockdown, it suggests that YAP is the primary target of LATS1 in mammalian cells. Expression profiling of genes induced by ectopic expression of YAP or by knockdown of LATS1 reveals a subset of potential Hippo pathway targets implicated in epithelial-to-mesenchymal transition, suggesting that this is a key feature of YAP signaling in mammalian cells.</p>				
<b>Scientific Editor</b>	N/A				
<b>Deputy/Senior Editor</b>	N/A				
<b>Potential Reviewers (assigned)</b>	N/A				
<b>Reviewers</b>	N/A				
<b>Suggested Reviewers to Include</b>	N/A				
<b>Suggested Reviewers to Exclude</b>	N/A				
<b>Keywords</b>	Organ Sites and Tumor Types: Gynecological cancers: vulvar IEN, Organ Sites and Tumor Types: Pancreatic cancer				
<b>Submission Payment Agreement</b>	No				
<b>Scientific Editor Recommendation</b>	Reject				
<b>AACR Member</b>	N/A				
<b>Disclosure of Chemical Structures</b>					
<b>Cell Line Authentication</b>					
<b>Statement of Significance</b>					
<b>Reviewed by Other AACR Journals</b>					
<b>Data Harmony Terms</b>	<p>Cell signaling  (3) signaling  (2) cell  (1)            Gene expression  (3) express*  (2) overexpress*  (1)            Drosophila proteins  (2) drosophila  (2)            Warts  (2) warts  (2)            Humans  (2) humans  (2)            Breast cancer  (2) cancer*  (1) mammar*  (1)            Epithelial cells  (2) epithelial cells  (1) epithel*  (1)            Protein expression  (2) protein*  (1) express*  (1)            Cell proliferation  (1) cell proliferation  (1)            Cell survival  (1) surviv*  (1)            Transcriptional regulation  (1) transcription*  (1)            Mice  (1) mouse  (1)            Breast cancer cells  (1) cancer*  (1)            Cell communication  (1) cell  (1)            Phenotypes  (1) phenotypes  (1)            Gene expression profiling  (1) expression profil*  (1)            (Automatic)</p>				



# Common Motivation

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Q: Why did eJournalPress integrate with each of these systems?

A: Because our customers' business required it.



# Information Resources

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1. FundRef

<http://www.crossref.org/fundref/index.html>

2. ORCID

<http://about.orcid.org/about/what-is-orcid>

3. Data Harmony

<http://www.dataharmony.com/>



A large blue arc curves from the top left towards the bottom right. To its left is a stack of three blue rectangular papers, with the top one slightly offset to the left and the others behind it.

# Thank You For Your Time!

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