

Authority framework in 1.6
and
CILEA's customization
for
The University of Hong Kong



Andrea Bollini *CILEA* 
Allen Lam *HKU* 
Susanna Mornati *CILEA* 
David Palmer *HKU* 



Flight Plan

David

- New design & customizations for HKU's IR
- The reason & funding wherefore
- Serendipitous discoveries

Andrea

- Authority Framework in 1.6
- Linkage between DSpace items, and author profiles
- Technical background of the RPs Project



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Featured Scholar



Prof. L. Samaranayake

An interview with the HKU Dean of Dentistry on the role

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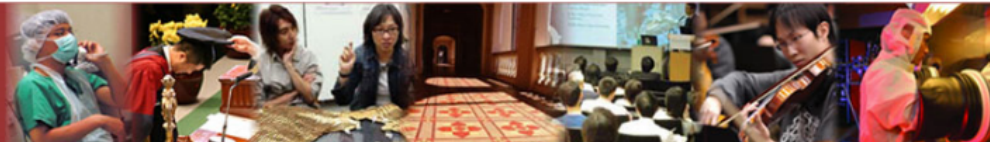
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HKU ResearcherPage: Tam, PKH

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**Tel:** 2855 4850**Office:** QK 1540**Dept:** Vice-Chancellor's Office**Email:** paultam@hkucc.hku.hk[Personal Page](#) | [Biography](#)

Prof Tam, Paul Kwong Hang ^R

譚廣亨

**Pro-Vice-Chancellor and Vice-President
(Research)**
Chair of Paediatric Surgery

Also Cited As:

- Tam, Paul
- Tam, Paul KH

Research Interests:

- Genomics
- Developmental biology
- Immunology
- Paediatric surgery

Media Comment

Bibliometric Data

Hub Items for: Tam, PKH

Authored items in the HUB - 1 to 20 of 43

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Title	Author(s)	Year
Abdominal compartment syndrome after open biopsy in a child with bilateral Wilms' tumour	Chung, PHY; Wong, KKY; Lan, LCL; Tam, PKH ORCID	2009
Abnormal enteric nervous system development in a Sox10NGFPmouse mutant	Zhang, M; Leung, C; Lui, VCH ORCID ; Tam, PKH ORCID ; Sham, MH ORCID	2009
Association study of PHOX2B as a candidate gene for Hirschsprung's disease	Garcia-Barcelo, MM ORCID ; Sham, MH ORCID ; Lui, VCH ORCID ; Chen, BLS; Ott, J; Tam, PKH ORCID	2003
BODIPY-Based Fluorescent Probe for Peroxynitrite Detection and Imaging in Living Cells	Sun, Z ORCID ; Wang, H; Liu, F; Chen, Y; Tam, PKH ORCID ; Yang, D ORCID	2009
Chinese patients with sporadic Hirschsprung's disease are predominantly represented by a single RET haplotype	Garcia-Barcelo, MM ORCID ; Sham, MH ORCID ; Lui, VCH ORCID ; Chen, BLS; Song, YQ ORCID ; Lee, WS; Yung, SK; Romeo, G; Tam, PKH ORCID	2003



HKU ResearcherPage: Tam, PKH

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**Tel:** 2855 4850**Office:** QK 1540**Dept:** Vice-Chancellor's Office**Email:** paultam@hkucc.hku.hk[Personal Page](#) | [Biography](#)Prof Tam, Paul Kwong Hang ^R

譚廣亨

Pro-Vice-Chancellor and Vice-President
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Chair of Paediatric Surgery

Also Cited As:

- Tam, Paul
- Tam, Paul KH

Research Interests:

- Genomics
- Developmental biology
- Immunology
- Paediatric surgery

Media Comment

Spoken Languages:

English | Cantonese | Putonghua (英語 | 粵語 | 普通話)

Written Languages:

English | Chinese (英文 | 中文)

Area of expertise:

- Paediatric surgery (Hirschsprung's disease and related disorders; genetics of neuroblastoma, experimental immunology, genomics of childhood tumours, minimal invasive surgery, biliary atresia and choledochal cyst.)

Bibliometric Data

Hub Items for: Tam, PKH

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Abdominal compartment syndrome after open biopsy in a child with bilateral Wilm's tumour	Chung, PHY; Wong, KKY; Lan, LCL; Tam, PKH OR	2009
Abnormal enteric nervous system development in a Sox10NGFPmouse mutant	Zhang, M; Leung, C; Lui, VCH OR ; Tam, PKH OR ; Sham, MH OR	2009
Association study of PHOX2B as a candidate gene for Hirschsprung's disease	Garcia-Barcelo, MM OR ; Sham, MH OR ; Lui, VCH OR ; Chen, BLS; Ott, J; Tam, PKH OR	2003
BODIPY-Based Fluorescent Probe for Peroxynitrite Detection and Imaging in Living Cells	Sun, Z OR ; Wang, H; Liu, F; Chen, Y; Tam, PKH OR ; Yang, D OR	2009



HKU ResearcherPage: Tam, PKH

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Office: QK 1540
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Prof Tam, Paul Kwong Hang
譚廣亨
Pro-Vice-Chancellor and Vice-President (Research)
Chair of Paediatric Surgery

Also Cited As:

- Tam, Paul
- Tam, Paul KH

Research Interests:

- Genomics
- Developmental biology
- Immunology
- Paediatric surgery

ResearcherID

Paul Tam
 RID: C-4405-2009
 The University of Hong Kong

Most cited publications:

1. A haplotype map of the human genome
 Times Cited: 2059 (*Web of Science*®)
2. The International HapMap Project
 Times Cited: 1611 (*Web of Science*®)
3. A second generation human haplotype map of over 3.1 million SNPs
 Times Cited: 877 (*Web of Science*®)

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Spoken Languages: English | Cantonese | Putonghua (英語 | 粵語 | 普通話)
Written Languages: English | Chinese (英文 | 中文)
Area of expertise:

- Paediatric surgery (Hirschsprung's disease and related disorders; genetics of neuroblastoma, experimental immunology, genomics of childhood tumours, minimal invasive surgery, biliary atresia and choledochal cyst.)

Bibliometric Data

Scopus		ResearcherID	
AuthorID:	7202539421	RID:	C-4405-2009
Document Count:	301	Document Count:	673
Cited by:	3477	Times Cited:	7508
h Index:	26	h Index:	28
Co-authors:	150	Co-authors:	Collaboration Network

Hub Items for: Tam, PKH

Authored items in the HUB - 1 to 20 of 43

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Title	Author(s)	Year
Abdominal compartment syndrome after open biopsy in a child with bilateral Wilm's tumour	Chung, PHY; Wong, KKY; Lan, LCL; Tam, PKH	2009
Abnormal enteric nervous system development	Zhang, M; Leung, C; Lui, VCH	2009

Tam, Paul K H

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Personal

Name	Tam, Paul K H		
Other formats	Tam, P. K. H. Tam, P. K. h. Tam, Paul Kwong Hang Tam, Paul	Tam, Paul K. Tam, P. K. Tam, P.	
Author Identifier	7202539421		
Affiliation	University of Hong Kong, Department of Surgery	Kowloon	Hong Kong

Research

Documents	296	<input type="button" value="Add to list"/>	E-mail alert
References	4637		
Cited By	2466	<input type="button" value="Citation tracker"/>	E-mail alert
<i>h</i> Index	24	<input type="button" value="h-graph"/>	The <i>h</i> Index considers Scopus articles published after 1995.
Co-authors	150 (maximum 150 co-authors can be displayed)		
Web Search	62229		
Subject Area	Medicine Biochemistry, Genetics and Molecular Biology Chemistry More...		

History

Publication range	1982-Present		
Source history	Gastroenterology Seminars in Neonatology Journal of the American College of Surgeons More...	<input type="button" value="documents"/> <input type="button" value="documents"/> <input type="button" value="documents"/>	
Affiliation history	Institute of Molecular Technology for Drug Discovery and Synthesis, Hong Kong, Department of Chemistry	Hong Kong	China
	Centre for Reproduction, Development, and Growth	Shenyang	China
	Morningside Laboratory for Chemical Biology, Department of Chemistry	Hong Kong	China
	Universite Paris Descartes, Faculty of Medicine	Paris	France
	Li Ka Shing Faculty of Medicine, Department of Surgery	Hong Kong	China
	QMH, Department of Surgery	Hong Kong	Hong Kong

Documents

This author has published **296** documents in Scopus:
(Showing the 2 most recent)

- [Salcido-Ochoa, F., Tsang, J., Tam, P., Falk, K., Rotzschke, O.](#)
Regulatory T cells in transplantation: does extracellular adenosine triphosphate metabolism through CD39 play a crucial role?
(2010) *Transplantation Reviews*

- [Yang, D., Sun, Z.N., Peng, T., Wang, H.L., Shen, J.G., Chen, Y., Tam, P.K.](#)
Synthetic fluorescent probes for imaging of peroxynitrite and hypochlorous acid in living cells.
(2010) *Methods in molecular biology (Clifton, N.J.)*

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- LETTER (12)
- MEETING ABSTRACT (12)
- NOTE (8)
- [more options / values...](#)

Authors

Source Titles

Publication Years

Conference Titles

Institutions

- 1. Title: [Clinical Experience in Managing Pediatric Patients with Ultra-short Bowel Syndrome using Omega-3 Fatty Acid](#)
Author(s): Chung PHY, Wong KKY, Wong RMS, et al.
Source: EUROPEAN JOURNAL OF PEDIATRIC SURGERY Volume: 20 Issue: 2 Pages: 139-141 Published: MAR 2010
Times Cited: 0
[WebBridge](#)
- 2. Title: [Lack of association between nNOS-84G > A polymorphism and risk of infantile hypertrophic pyloric stenosis in a Chinese population](#)
Author(s): Miao XP, Garcia-Barcelo MM, So MT, et al.
Source: JOURNAL OF PEDIATRIC SURGERY Volume: 45 Issue: 4 Pages: 709-713 Published: APR 2010
Times Cited: 0
[WebBridge](#) [Full Text](#)
- 3. Title: [Reduced RET expression in gut tissue of individuals carrying risk alleles of Hirschsprung's disease](#)
Author(s): Miao XP, Leon TYY, Ngan ESW, et al.
Source: HUMAN MOLECULAR GENETICS Volume: 19 Issue: 8 Pages: 1461-1467 Published: APR 15 2010
Times Cited: 0
[WebBridge](#)
- 4. Title: [Silver Nanoparticles Mediate Differential Responses in Keratinocytes and Fibroblasts during Skin Wound Healing](#)
Author(s): Liu XL, Lee PY, Ho CM, et al.
Source: CHEMMEDECHEM Volume: 5 Issue: 3 Pages: 468-475 Published: MAR 2010
Times Cited: 0
[WebBridge](#)
- 5. Title: [Management of choledochal cyst: 30 years of experience and results in a single center](#)
Author(s): She WH, Chung HY, Lan LCL, et al.
Conference Information: 42nd Annual Meeting of the Pacific-Association-of-Pediatric-Surgeons, MAY 10-14, 2009 Hong Kong, PEOPLE'S REPUBLIC OF CHINA

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Tam, Paul

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ResearcherID: C-4405-2009

Other Names: Tam PKH; Tam P; Tam KH; 譚廣亨

URL: <http://www.researcherid.com/rid/C-4405-2009>

Subject: Critical Care Medicine; Emergency Medicine; General & Internal Medicine; Genetics & Heredity; Immunology; Integrative & Complementary Medicine; Neurosciences & Neurology; Pathology; Pediatrics; Surgery; Transplantation

Description: Chair of Paediatric Surgery and Division Chief. Professor Tam has received numerous awards including the BAPS prize, Royal College of Surgeons' gold medal etc. He has published extensively including 19 chapters in 11 books and over 211 original articles in international journals. He was the Founding Director of the Centre of Human Development and Birth Defects.

My URLs: <http://hub.hku.hk/rp/rp00060>
http://www.hku.hk/vcoffice/menu/pvc-tam_Biography.htm

My Institutions [\(more details\)](#)

Primary Institution: The University of Hong Kong

Sub-org/Dept:

Role: Researcher (Academic)

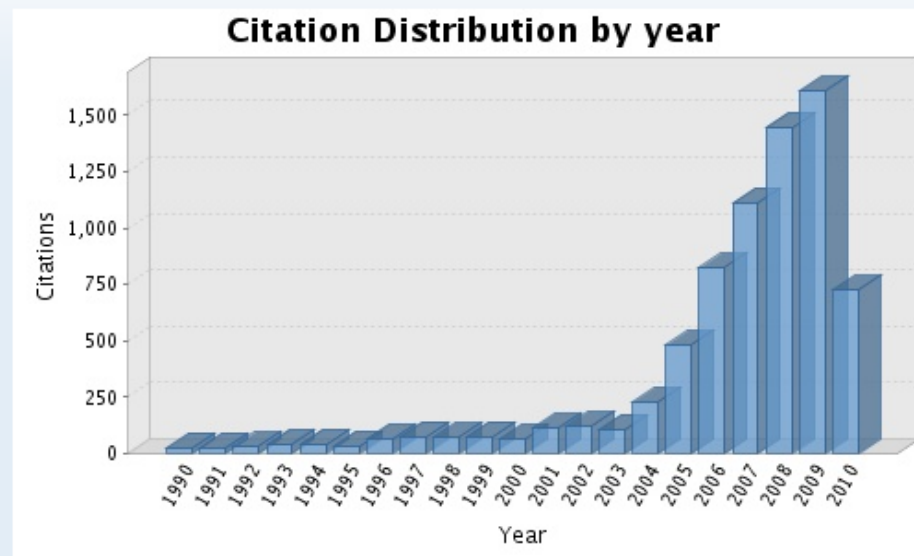
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Samaranayake, Lakshman Perera

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• Tse, Tak-wai, Deborah		
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Bacon-shone, John; Bacon-shone, J; Baconshone, J; Bacon-Shone, J. Research Interests: Compositional data; **Gambling**; Immigration and population policy ...
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by VSY Lo - 1995 - Cited by 6 - Related articles
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mansci.journal.informs.org/cgi/content/abstract/41/6/1048 - Similar

Efficiency of Racetrack Betting Markets (677 Pages) ☆
File Format: PDF/Adobe Acrobat - Quick View
Lo, V., J. Bacon-Shone and K. Bushe (1995). The application of ranking probability models to racetrack betting. Management Science, 41: ...
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File Format: PDF/Adobe Acrobat - Quick View
J. Bacon-Shone, Social Sciences Research Centre, University of Hong Kong, Study on Hong Kong People's Participation in Gambling Activities 2004-5 ...
crell.jrc.it/creativitydebate/CV/Bacon.pdf - Similar

Weekend Standard - Downhill racing ☆
"It's quite unusual not to have a proper regulator," says Bacon-Shone. The Home Affairs Bureau has jurisdiction over gambling policy, but pointing to its ...
www.thestandard.com.hk/stdn/std/Weekend/GF04Jp01.html - Cached

Microsoft PowerPoint - SIS 09.23.07 ☆
File Format: PDF/Adobe Acrobat - Quick View
Lo, V.S.Y., Bacon-Shone, J., and Busche, K. (1995) "The Application of. Ranking Probability Models to Racetrack Betting," Management Science, ...
www.amstat.org/chapters/boston/nessis07/presentation.../Victor_Lo.pdf

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by H So - Cited by 1 - Related articles
business in Hong Kong (Bacon-Shone, 2005). Before the legalization of football betting in 2003, the routine gambling policy of the Hong

Prof. Bacon-Shone
Associate Dean of Social Sciences
Research Interest: "Gambling"

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Title	40Ar/39Ar Constraints on a Temporal Link between Continental Margin Transension in the Jiaodong
Authors	Li, JW Vasconcelos, PM Zhang, J Zhou, MF Zhang, XJ Yang, FH
Keywords	Earth sciences Geology
Issue Date	2003
Publisher	University of Chicago Press. The Journal's web http://www.journals.uchicago.edu/JG
Citation	The Journal of Geology, 2003, v. 111 n. 6, p. 7
Abstract	The Jiaodong gold province is the largest gold r granitoid hosts are spatially related to the crust developed along the Mesozoic continental margin. Incomental heating analyses of hydrothermal (Jiaojia, Jincheng, and Wangershan) and igneous performed to establish a possible temporal link movement along the Tan-Lu fault zone. Magma concordant plateau ages between 124.5±0.4 Ma muscovite samples (a total of 30 single separa 121.0±0.4 Ma to 119.2±0.2 Ma (2). An integratio other major gold deposits in Jiaodong demonstr contemporaneously during a 23-m.yr. period. M associations with abundant mafic to intermediate 123.5±19.6 Ma, in excellent agreement with the 40Ar/39Ar ages, in combination with other indep granodioritic intrusions (130±126 Ma), volcanic r strike-slip faults (132±120 Ma) in Jiaodong or adj mineralization postdated the granodioritic magm magmatism and volcanism, all controlled by the the Early Cretaceous
ISSN	0022-1376
DOI	10.1086/378466

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- Can we arrange seminar for you? depts Researcher Page and the Springer Open? Please write to us. Seminars now arranged by Faculties of Science, Engineering, and Medicine.

The screenshot shows the ISI Web of Knowledge interface. The main article is titled "40Ar/39Ar constraints on a temporal link between gold mineralization, magmatism, and continental margin transension in the Jiaodong gold province, Eastern China" by Li, JW et al., published in the Journal of Geology in 2003. The interface includes search filters, a list of citing articles (5 results), and options to refine results by subject areas and document types.

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☞ US\$6.5M/yr, divided by 8 Universities in Hong Kong

☞ At HKU

- Re-articulated Vision:
 - ◆ Teaching & Learning
 - ◆ Research
 - ◆ Knowledge Exchange (KE)
- KE includes,
 - ◆ Database of Visible Expertise to Enable & Measure KE
 - Metrics from citation databases
 - Research Output & Grants, etc.
 - Expanded OA Strategy

Serendipity





1) Online Reputation Management

☞ Internet Footprint

☞ Findability

☞ Identity exposure, disclosure

☞ Cybervetting

- One bad apple...



2) Meanwhile,

- Reputation & identity of the institution:
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 - RAE
 - Peer Review
 - Parent's choice of school for child
 - Recruiter's choice
 - Media spokespersonship
 - Collaborative partnerships
 - Contract research undertaken
 - Funding received
 - Etc.



The Reputation of the University?





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Scopus – Document Count	47,013	46,720	-0.62%
Scopus – Citation Count	484,679	493,641	1.85%
Scopus – <u>CoAuthor Count</u>	50,767	51,155	0.76%
Scopus – h index	8,165	8,281	1.42%
RID – Document Count	55,735	57,066	2.39%
RID – Citation Count	346,374	392,540	13.33%
RID – h index	4,892	5,210	6.5%

|



3) HK's Research Assessment Exercise

✎ UK:

- Research Excellence Framework (REF)

✎ Australia

- Excellence in Research for Australia (ERA)



4) For HKU, a trusted authority

- ✎ ORCID - Open Researcher & Contributor ID
 - Based upon ResearcherID
 - All authors & publishers to use
 - Citation databases; Scopus, WoS
 - June 2010
- ✎ BKNpeople – Bibliographic Knowledge Network People



5) Re-positioning the academic library

☞ OCLC Report

- Leverage value of IR in RAEs
- Provide a researcher-centred view
- Moving beyond putting books on shelves
- Aligned with institution's vision & mission

☞ Key Perspectives Ltd. "A comparative Review of Research Assessment Regimes in Five Countries and the Role of Libraries in the Research Assessment Process" (Report commissioned by OCLC Research), 2009.

<http://www.oclc.org/research/publications/library/2009/2009-09.pdf>.



6) Re-thinking the IR

☞ Moral and philosophical approaches have failed

And here, pilots switch in mid-stream

Authority Framework in DSpace 1.6





Technical details

- ❧ The Authority framework is one of the new major features of DSpace 1.6
- ❧ Main contribution & projectual idea by **Larry Stone**
- ❧ CILEA / HKU Project was an early adopter. For this we provided JSPUI & PostgreSQL porting, browse & search enhancement with support for variants names and forms



Authority Framework: responsibilities

- ✎ Bind metadata fields to an **Authority**
- ✎ Retrieve **matching values** from user queries / input
- ✎ Supply the standard form and variants for an **authority key**



Authority Framework: main classes



`org.dspace.content.authority`

`MetadataAuthorityManager`

Configuration

`ChoiceAuthorityManager`

Query

Extensibility provided by:

`ChoiceAuthority`

How TO Query ? WS, SQL, ...

`AuthorityVariantsSupport`

Retrieve variants



Authority Framework: extension points

org.dspace.content.authority
ChoiceAuthority 5124

- getMatches(String, int, int, int, String) : Choices
- getBestMatch(String, int, String) : Choices
- getLabel(String, String) : String

org.dspace.content.authority
AuthorityVariantsSupport 4365

- getVariants(String, String) : List<String>



Authority Framework: which authorities?

- Library of Congress Personal names authority: **LCNameAuthority**
- Sherpa RoMEO Project, publisher names authority: **SRPublisherAuthority**
- Sherpa RoMEO Project, Journal titles authority: **SRJournalTitle**
- DSpace Input Form XML based controlled list: **DCInputAuthority**



Authority Framework: which authorities?

```
plugin.named.org.dspace.content.authority.ChoiceAuthority = \  
  org.dspace.content.authority.SampleAuthority = Sample, \  
  org.dspace.content.authority.LCNameAuthority = LCNameAuthority, \  
  org.dspace.content.authority.SHERPARoMEOPublisher = SRPublisher, \  
  org.dspace.content.authority.SHERPARoMEOJournalTitle = SRJournalTitle
```

```
## This ChoiceAuthority plugin is automatically configured with every  
## value-pairs element in input-forms.xml, namely:  
##   common_identifiers, common_types, common_iso_languages  
plugin.selfnamed.org.dspace.content.authority.ChoiceAuthority = \  
  org.dspace.content.authority.DCInputAuthority
```



Changes to the Data Model

☞ Two new fields for the MetadataValue class: authority & confidence

```
CREATE TABLE MetadataValue
(
  metadata_value_id  INTEGER PRIMARY KEY DEFAULT NEXTVAL('metadatavalue_seq'),
  item_id            INTEGER REFERENCES Item(item_id),
  metadata_field_id  INTEGER REFERENCES MetadataFieldRegistry(metadata_field_id),
  text_value         TEXT,
  text_lang          VARCHAR(24),
  place              INTEGER,
  authority           VARCHAR(100),
  confidence         INTEGER DEFAULT -1
);
```

Added fields in DSpace 1.6



Authority Framework: settings

Interactive settings

```
choices.plugin.dc.contributor.author = LCNameAuthority  
choices.presentation.dc.contributor.author = lookup | suggest | select  
choices.closed.dc.contributor.author = false
```

General settings – model constraints

```
authority.controlled.dc.contributor.author = true  
authority.required.dc.contributor.author = false  
authority.minconfidence.dc.contributor.author = accepted *  
  
authority.minconfidence = ambiguous *
```

* More on this later



Authority Framework: UI lookup

Pop-up windows

The image shows a screenshot of a DSpace metadata entry form titled "Describe Item". The form has several fields: Authors, Title, Other Titles, Date of Issue, Embargo Lift Date (if any), Publisher, Citation, and Series/Report No. The "Authors" field contains "Twain" and "Mark". A "Look up & Add" button is highlighted with a yellow arrow. A pop-up window titled "DSpace Value Lookup - Google Chrome" is open, showing the URL "http://demo.dspace.org/xmlui/admin/lookup?field=dc_contributor_author&formID=aspect_submission_...". The pop-up window displays "LC Name Authority author lookup" results for "Twain, Mark". The results list includes: Clemens, Olivia Langdon, 1845-1904; Clemens, Samuel Langhorne, 1835-1910; Conte, Louis de, 1835-1910; Snodgrass, Quintus Curtius, 1835-1910; Twain, Mark, 1835-1910 (highlighted); Twain, Mark, 1835-1910; and Local value "Twain, Mark" (not in Naming Authority). Below the list are input fields for "Twain" and "Mark, 1835-1910", and buttons for "Add", "See More Results", and "Cancel".

Describe Item

Authors:
Last name, e.g. *Smith* First name(s) + "I" e.g. *Donald, Jr*

Enter the names of the authors of this item below.

Title:
Enter the main title of the item.

Other Titles:
If the item has any alternative titles, please enter them.

Date of Issue:
Year Month Day
Please give the date of previous publication or publication out the day and/or month if they aren't applicable.

Embargo Lift Date (if any):
If your work needs to be embargoed (temporarily hidden from view), please enter the date it should be publicly released (format: YYYY-MM-DD). If you do not wish to embargo, enter "forever".

Publisher:
Enter the name of the publisher of the previously issued work.

Citation:
Enter the standard citation for the previously issued work.

Series/Report No.:

DSpace Value Lookup - Google Chrome
http://demo.dspace.org/xmlui/admin/lookup?field=dc_contributor_author&formID=aspect_submission_...

LC Name Authority author lookup

Results 1 to 7 of 7 for "Twain, Mark"

- Clemens, Olivia Langdon, 1845-1904
- Clemens, Samuel Langhorne, 1835-1910
- Conte, Louis de, 1835-1910
- Snodgrass, Quintus Curtius, 1835-1910
- Twain, Mark, 1835-1910
- Twain, Mark, 1835-1910
- Local value "Twain, Mark" (not in Naming Authority)

Last name, e.g. "Smith" First name(s) e.g. "Fred"



Authority Framework: UI lookup


An icon show metadata value bind to an authority key

Describe Item

Authors:

<input type="text"/>	<input type="text"/>
Last name, e.g. <i>Smith</i>	First name(s) + "Jr", e.g. <i>Donald Jr</i>

Enter the names of the authors of this item below.

Twain, Mark, 1835-1910 



Authority Framework: UI suggest

Autocomplete AJAX

Publisher:

Enter the name of the publisher of the previously issued instance of this item.

Publisher:

Cold Spring Harbor

Laboratory Press

Humana Press

Ivyspring International

Publisher

Kluwer

Springer Verlag

Citation:

Series/Report No.:

Enter the series and number assigned to this item by your community.

the previously issued instance of this item.

previously issued instance of this item.

Add

Report or paper No.



Authority Framework: UI conclusion

- ☞ For a short authority list a simple **html select** widget can be used
- ☞ The input facility is available also in the **edit item page**
- ☞ All the widgets are available in **both UIs: JSPUI and XMLUI**



Authority Framework: UI conclusion

Profile: Demo Administrator | Logout

Manakin

DSpace Home » Items » Item metadata

Search DSpace

Remove	Name	Value	Language
<input type="checkbox"/>	dc.contributor.author	Twain, Mark, 1835-1910 n 82045653 <input type="button" value="Lookup"/>	
<input type="checkbox"/>	dc.publisher	Springer Verlag <input type="button" value="Lookup"/>	en_US

dc.title en_US

This website is using Manakin, a new front end for DSpace created by Texas A&M University Libraries. The interface can be extensively modified through Manakin Aspects and XSL based Themes. For more information visit <http://di.tamu.edu> and <http://dspace.org>
Contact Us | [DSpace](#)



Authority Framework: XML response

☞ The html widget are build on standard AJAX XML response

☞ Developers can easily extend or build new widget reusing existing infrastructure

```
<select xmlns="http://www.w3.org/1999/xhtml" start="0" total="6">
  <option authority="n 89103996" value="Clemens, Olivia Langdon, 1845-1904">
    Clemens, Olivia Langdon, 1845-1904
  </option>
  <option authority="n 93099439" value="Clemens, Samuel Langhorne, 1835-1910">
    Clemens, Samuel Langhorne, 1835-1910
  </option>
  <option authority="no2003079632" value="Conte, Louis de, 1835-1910">
    Conte, Louis de, 1835-1910
  </option>
  <option authority="n 93099461" value="Snodgrass, Quintus Curtius, 1835-1910">
    Snodgrass, Quintus Curtius, 1835-1910
  </option>
  <option authority="n 82045653" value="Twain, Mark, 1835-1910">
    Twain, Mark, 1835-1910
  </option>
  <option authority="n 79021164" value="Twain, Mark, 1835-1910">
    Twain, Mark, 1835-1910
  </option>
</select>
```



Keep the metadata clean

- ☞ New administrative tool to:
 - Check authority usage
 - Review, reject, or confirm automatic linkage
- ☞ Plan to release this functionality to the community after the HKU Scholars Hub migration to DSpace 1.6

The screenshot shows the 'Authority management' page for 'The HKU Scholars Hub'. The main content area displays 'Statistics about the authority for the metadata dc.contributor' with a table of statistics and a set of icons for each row. A yellow box highlights a second table titled 'Statistics about the authority for the metadata dc.contributor.author'.

Stat	# of ...
# of prelim matched items to RPs by confidence	0 0 0 0 0 0 0
# of authors generally in the Hub (RP & non-RP)	153
# of in use RPs	0
# of authority keys pending approval	0

Stat	# of ...
# of prelim matched items to RPs by confidence	0 0 0 0 0 0 8899
# of authors generally in the Hub (RP & non-RP)	62213
# of in use RPs	752
# of authority keys pending approval	0
# of items (prelim & accepted) on RPs	5809
# of items pending on RPs	0
# of all items in the Hub	26211



- Home
- Communities/ Collections
- EPerson
- Admin Group
- Items
- Authority Management
- HKU ResearcherPages
- Withdrawn Items
- Metadata Registry
- Bitstream Format Registry
- Workflow
- Submit Item
- Authorization
- Edit News
- Edit Default License
- Supervisors
- Statistics
- # Duplicated Titles in Hub
- # Duplicated Titles in HKUTO
- DC Types
- Find IDs
- Help
- Log Out

Tentative matches for RP rp00857

[Help...](#)

RP Details

Label: He, Hongming
 Authority key: rp00857
 Variants: He, Hongming; He, H; 何洪鳴;
 Department: Dept of Geography;

Researcher interests:

1. Climate change impacts on human dimensions
2. Water resources sciences, specialized in hydrological modelling
3. Urbanization process
4. Environmental modelling

Items awaiting Accept/Reject

Confidence level: UNCERTAIN

<input type="checkbox"/>	Title	Author(s)	Year	
<input type="checkbox"/>	1 Early Upregulation of Cyclooxygenase-2 in Human Papillomavirus Type 16 and Telomerase-induced Immortalization of Human Esophageal Epithelial Cells	Zhuang, Z; Tsao, GSW; Deng, W; Wang, J; Xia, HHX; He, H; Feng, H; Wang, L; Gu, Q; Lam, SK; Lin, MC; Kung, HF; Wong, BCY	2008	<input type="button" value="Edit Item"/>
<input type="checkbox"/>	2 Generation of repetitive sequence-depleted microdissected chromosome arm painting probe	He, H; Huang, W; Guan, XY	1999	<input type="button" value="Edit Item"/>
<input type="checkbox"/>	3 Generation of repetitive sequence-depleted microdissected chromosome arm painting probe	He, H; Huang, W; Guan, XY	1999	<input type="button" value="Edit Item"/>

[Previous](#) [return to the list](#)



ResearcherPage technology

☞ Spring IoC & AoP (TxManager)

☞ Hibernate & Hibernate Search

☞ Spring MVC

... some tricks/tips to use Spring DI in the Authority Plugin in the next slides



Integration authority framework to HUB

```
it.cilea.hku.authority.dspace.HKUAuthority
```

implements

```
ChoiceAuthority,  
AuthorityVariantsSupport,  
NotifiableAuthority
```

```
Keep static references to the RP  
"services" (persistence + search),  
injected by Spring
```



Integration

- ❧ Dependencies Injection with Spring on classes managed by the DSpace plugin system needs a workaround :
 - Use static fields and semaphore/init method to assure proper initialization both in web and batch contexts (Our approach for the RP Project)
 - Expose and retrieve the Spring context as JMXBean: use the Spring API to retrieve dependencies (DSpace services approach)



Integration of RP presentation

- ☞ Servlet filter on the browse url to make HTTP redirect to the RP
 - No changes in dspace jsp tags
 - No changes in browse pages
 - Simple turnoff of ResearcherPage without loss of the metadata quality
 - Low overhead for no rp browsing
- ☞ Integration with the HKU SSO, the netID as bridge between DSpace Eperson & RPs



HKU Colleagues
港大同僚



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Terima Kasih

спасибо

شكرا لك

謝謝您

감사합니다

cảm ơn bạn

धन्यवाद

Σε ευχαριστώ

הודת

有り難うございます

Thank You

Grazie





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