



<b>Title</b>	<b>DSpace-CRIS@HKU: Achieving visibility with a CERIF compliant open source system</b>
<b>Author(s)</b>	<b>Palmer, DT; Bolini, A; Mornati, S; Mennielli, M</b>
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<b>Rights</b>	



# DSpace-CRIS@HKU: Achieving Visibility With a CERIF Compliant Open Source System

David T Palmer, HKU

Andrea Bollini, CINECA

Susanna Mornati, CINECA

Michele Mennielli, CINECA

EuroCRIS, Rome, 13 ~ 15 May 2014



# University of Hong Kong (HKU) IR → CRIS

- 2005. Traditional IR. Publications in OA
  - The HKU Scholars Hub “The Hub”
- 2009. “Knowledge Exchange” (KE)
  - “Engaging our community for mutual benefit”
  - OA & KE complimentary
  - The Hub: a key vehicle for HKU’s KE
- Provides **visibility** on items previously in dark archive
- Gradually, dynamically, & organically,
  - Decision support; funding, research management
  - Benchmarking with peers; HKU and beyond

# Extending Dspace → Dspace-CRIS

Relational Tables: top level objects & attributes

Publications

- Article title
- Publication year, etc.

Researchers

- Name(s)
- Department, etc.

Organizations

- Headship
- Sub-units, etc.

UI: Mashups to show integrated display

# Sources; dark & external

<b>HKU (dark)</b>	<b>db</b>	<b>External</b>	<b>db</b>
Registry	Personnel	Elsevier	Scopus
Research	Publications	TR	WoS
-- ditto	Grants	RePEc	
-- ditto	Awards	SSRN	
Public Affairs	Media Contact dir.	NIH	PubMed
Tech Transfer	Patents	Faculty 1000	
Grad School	Thesis supervision		USPTO Espacenet Patent Lens



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### FEATURED SCHOLAR



**Professor Au, TKF**

- Professor: Chair of Psychology
- Professor (Non-Clinical)

*Research Interests:*

- Language development
- Conceptual development
- Health & science education

[+ MORE](#)

### HUB NEWS

- Mar 2014:** Added "Invited Lectures & Keynote Speeches" to HKU ResearcherPages. >
- Feb 2014:** Added teaching course lists to HKU ResearcherPages. >
- Feb 2014:** The Hub is No. 1 in Asia, according to Webometrics. >
- Jan 2014:** Upgraded to DSpace 3.2 with [DSpace-CRIS](#). >

[More](#)

### RELEVANT LINKS

- [HKU's Top 1%](#)
- [HKU Authors: Open Access Publishing](#)
- [Usage Stats & Downloads](#)
- [HKU most cited articles in Scopus](#)
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- [HK Open Access Committee](#)



Publications!



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File Download

[content.pdf](#)

Contact the author(s) ?

Links for fulltext  
(May Require Subscription)

- Publisher Website: [10.1371/journal.pgen.1002687](http://10.1371/journal.pgen.1002687)
- Scopus: [eid\\_2-s2.0-84863680217](#)
- PMID: [22589734](#)
- WOS: [WOS:000304864000018](#)

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Supplementary

Citations:

• Scopus: **8**

Item Statistics (The Hub)

Appears in Collections:

- [Biochemistry: Journal/Magazine Articles](#)
- [Surgery: Journal/Magazine Articles](#)

score **2**

### Article: Genome-wide copy number analysis uncovers a new HSCR gene: NRG3

**Basic View**

Metadata View

XML View

**Title**      Genome-wide copy number analysis uncovers a new HSCR gene: NRG3

**Authors**

- [Tang, CSM](#)<sup>3</sup> ●
- [Cheng, G](#)<sup>3</sup> ●
- [So, MT](#)<sup>3</sup> ●
- [Yip, BHK](#)<sup>3</sup> ●
- [Miao, XP](#)<sup>5 3</sup> ●
- [Wong, EHM](#)<sup>3</sup> ●
- [Ngan, ESW](#)<sup>3</sup> ●
- [Lui, VCH](#)<sup>3</sup> ●
- [Song, YQ](#)<sup>3</sup> ●
- [Chan, D](#)<sup>3</sup> ●
- [Cheung, K](#)<sup>3</sup> ●
- [Yuan, ZW](#)<sup>4</sup> ●
- [Lei, L](#)<sup>1</sup> ●
- [Chung, PHY](#)<sup>3</sup> ●
- [Liu, XL](#)<sup>3</sup> ●
- [Wong, KKY](#)<sup>3</sup> ●
- [Marshall, CR](#)<sup>2</sup> ●
- [Scherer, S](#)<sup>2 6</sup> ●
- [Cherny, SS](#)<sup>3</sup> ●
- [Sham, PC](#)<sup>3</sup> ●
- [Tam, PKH](#)<sup>3</sup> ●
- [GarciaBarceló, MM](#)<sup>3</sup> ●

**Keywords**

Copy number variation



longer CNVs than the non-syndromic or controls ( $p = 1.50 \times 10^{-5}$ ), non-syndromic patients were enriched in CNV number when compared to controls ( $p = 4.00 \times 10^{-6}$ ) or the syndromic counterpart. Our results suggest a role for NRG3 in HSCR etiology and provide insights into the relative contribution of structural variants in both syndromic and non-syndromic HSCR. This would be the first genome-wide catalog of copy number variants identified in HSCR. © 2012 Tang et al.

**ISSN**

[1553-7390](#)

2012 SCImago Journal Rankings: [5.375](#)

**PubMed  
Central ID**

[PMC3349728](#)

**ISI Accession  
Number ID**

[WOS:000304864000018](#)

**Funding Agency**

Hong Kong Research Grants Council

Seed Funding Programme for Basic Research

University Grants Committee of Hong Kong

AOSPINE

**Grant Number**

HKU 775907M

HKU 765609M

200910159040

200811159006

200911159190

AoE/M-04/04

AOSBRC-07-02

**Funding Information:**

This work was supported by the Hong Kong Research Grants Council (HKU 775907M to PK-HT and HKU 765609M to M-MG-B) and by the Seed Funding Programme for Basic Research (200910159040 and 200811159006 to M-MG-B and 200911159190 to SSC). Support was also received from the University Grants Committee of Hong Kong (AoE/M-04/04) and AOSPINE (AOSBRC-07-02 to DC). The funders had no role in study design, data collection and analysis, decision to publish, or preparation of the manuscript.

**References**

[References in Scopus](#)

**Grants**

[Identification of functional variants in Neuregulin-1 \(NRG1\), a newly discovered Hirschsprungs disease gene](#)

[Genetic dissection of Hirschsprung's disease](#)

[Developmental genomics and skeletal research](#)

**Author Affiliations**

1. Shenzhen Children's Hospital
2. The Centre for Applied Genomics University of Toronto
3. The University of Hong Kong Li Ka Shing Faculty of Medicine
4. China Medical University Shenyang
5. Huazhong University of Science and Technology
6. University of Toronto



Researchers!



## HKU ResearcherPage: Bacon-Shone, J

### Profile

► **Contact Information**

Media Contact Directory  
Professional Qualifications

### Publications

Selected Publications (4)  
Articles (54)  
Conference Papers (28)  
Books (8)  
Book Chapters (13)

Missing Publications?

### Collaborations

Visualized  
Tabulated

### External Relations

Community Service

### University Responsibilities

HKU Committee Appointments  
Supervision of Research Postgraduate Students  
Teaching List, Current

### Grants

Principal Investigator  
Co-Investigator

### Bibliometrics

### Contact Information



Tel: 3917 1600

Office: CJT 815

## Professor Bacon-Shone, John 白景崇

**Title** Director, Social Sciences Research Centre  
Professor  
Associate Dean of Social Science  
Associate Director, Knowledge Exchange Office  
Associate Dean, Faculty of Social Sciences  
Director of SSRC

**Dept:** [Faculty of Social Sciences](#)  
[Social Sciences Research Centre](#)

**Faculty:** [Faculty of Social Sciences](#)

**Curriculum Vitae** [Download](#)

**Research Interests:** (click to check for cognate researchers)  

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- [Gambling](#)
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- [Immigration and population policy](#)

**My URLs:**  

- <http://orcid.org/0000-0002-9827-1815>
- [Biography](#)
- [Google Scholar Citations](#)

**Also Cited As:**  
Baconshone, J  
Bacon-Shone, J  
Bacon-shone, J  
Bacon-shone, John

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# Browsing by Author

Jump to: 0-9 | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | 中 »

SEARCH 

Showing results 75983 to 76002 of 117152

[< Previous](#) [Next >](#)

Author Name	ResearcherPage Name	Dept
Tam, Pak-fai.		
Tam, Pak-hin.		
Tam, Paul 	Tam, Paul Kwong Hang  譚廣亨	V-C's Office
Tam, Paul KH		
Tam, Paul KH 	Tam, Paul Kwong Hang  譚廣亨	V-C's Office
Tam, Paul Kwong Hang 	Tam, Paul Kwong Hang  譚廣亨	V-C's Office
Tam, PC		
Tam, PCF		
Tam, Peter TS		
Tam, PH		
Tam, PHK		
Tam, PHT		

Conference Papers (82)  
Books (1)  
Book Chapters (4)  
Others (4)

Missing  
Publications?

### Collaborations

Visualized  
Tabulated

### External Relations

Editorship  
Invited Lectures & Keynote Speeches

### University Responsibilities

HKU Committee Appointments  
Supervision of Research Postgraduate  
Students  
Teaching List, Current

### Grants

Principal Investigator  
Co-Investigator

### Bibliometrics

#### ► External Metrics

- Monthly Increases
- Internal Metrics
- Monthly Increases

### External Metrics

<b>ResearcherID</b>	<b>Author ID:</b>	<a href="#">D-3064-2009</a>
	<b>Document Count:</b>	<a href="#">180</a>
	<b>Times Cited:</b>	<a href="#">2172</a>
	<b>Co-authors:</b>	<a href="#">Collaboration Network</a>
	<b>h-Index:</b>	26

<b>Scopus</b>	<b>Author ID:</b>	<a href="#">7102826193</a>
	<b>Document Count:</b>	<a href="#">111</a>
	<b>Total Citations:</b>	<a href="#">2327</a>
	<b>h-Index:</b>	24
	<b>Co-authors:</b>	<a href="#">150</a>

<b>BiomedExperts</b>	<b>URL:</b>	<a href="#">239266</a>
	<b>Co-Authors:</b>	105
	<b>Publications:</b>	97

<b>Google Scholar Citations</b>	<b>Author Profile URL:</b>	<a href="#">kjfd3oAAAAAJ</a>
	<b>Citations:</b>	2945
	<b>h-Index:</b>	30
	<b>i10-Index:</b>	81

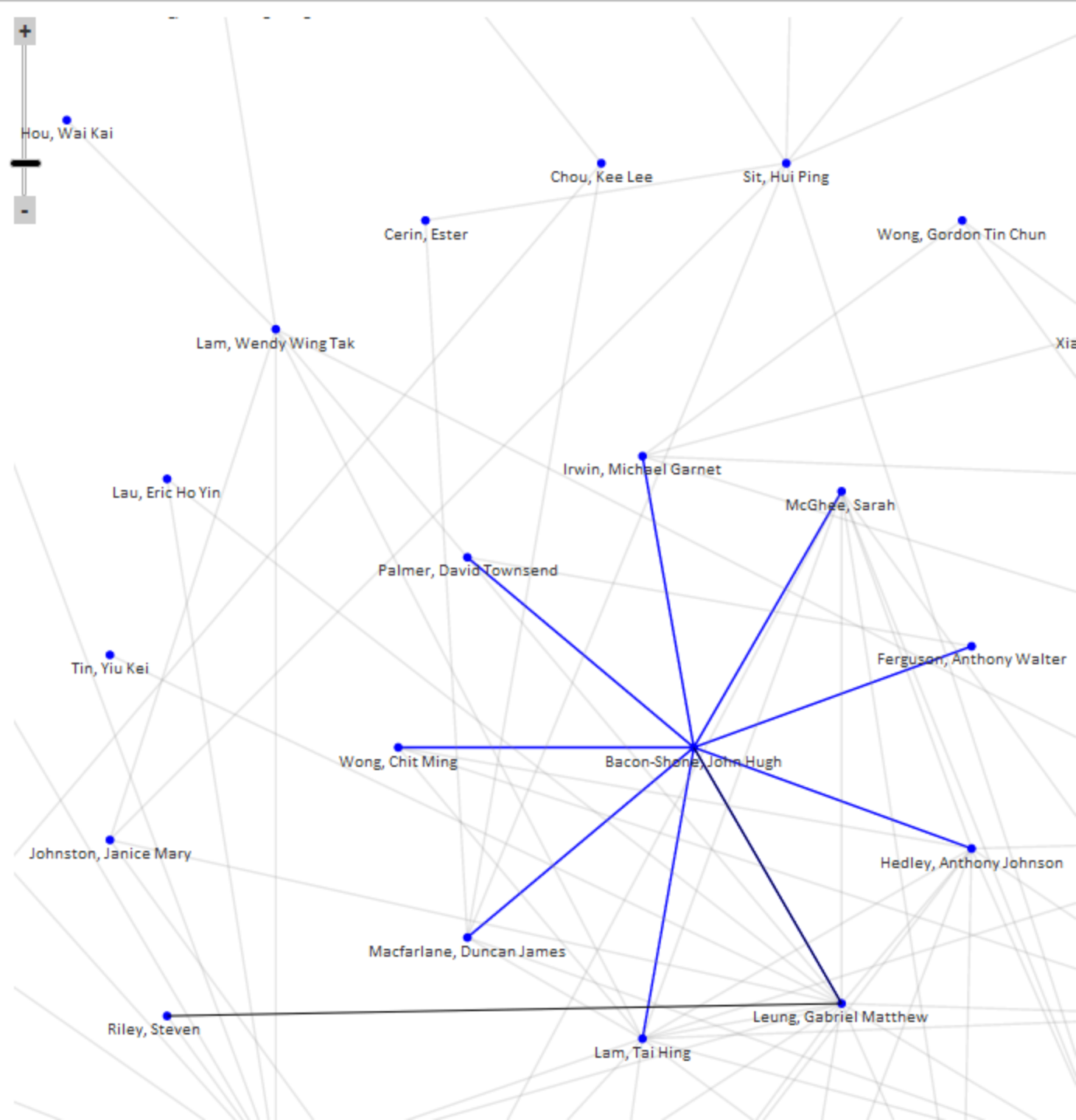
211 publications indexed in the Hub. Of these:

<b>Web of Science:</b>	<a href="#">83</a> are found in WoS, with 1931 citations
<b>PubMed:</b>	<a href="#">106</a> are found in PubMed, with 290 citations
<b>CiteULike:</b>	<a href="#">20</a> are found in CiteULike, of which 4 bookmarked.
<b>F1000:</b>	<a href="#">4</a> are found in F1000.

# HKU Researcher



**Professor Bacon-Shone,  
John Hugh**  
Associate Dean of Social  
Science  
*Dept: Social Sciences  
Research Ctr*



### Degree of Separation

- Co-authors 3
- Co-investigators 2
- Keywords in grants 2
- Keywords in publications 2

**HKU Researcher**



**Professor Bacon-Shone, John Hugh**  
 Associate Dean of Social Science  
*Dept:* Social Sciences  
 Research Ctr

**AND**

**Cognate Researcher**



**Dr Wong, Chit Ming**  
 Associate Professor  
*Dept:* Dept of Community Medicine

**SHARE**

**Research Facets**

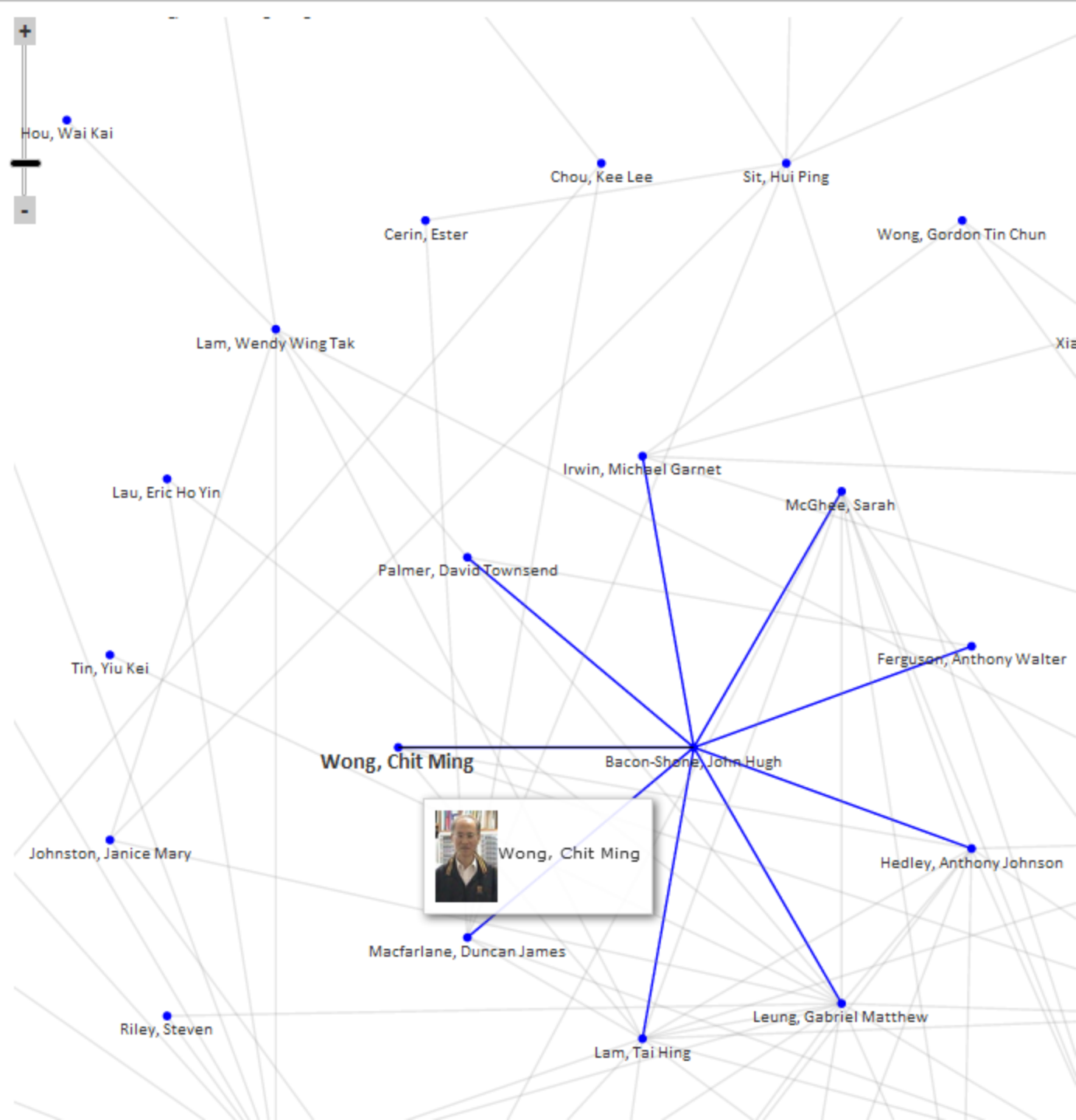
- Keywords (grants): 2
- Awards: 1
- Publications 5
- Co-investigators: 6

**Degree of Separation**

Co-authors 3

Co-investigators 2

Keywords in grants 0



# The HKU Scholars Hub

Making HKU research & researchers highly visible!

## Subscribed Weekly Statistics

### Dear Hub Subscriber!

**Statistics keep climbing!** An attached file and a summary below show

- a) citation counts from Scopus, Web of Science, and PubMed, and
- b) download and view counts recorded in the Hub.

### Your Hub team!

---

You have subscribed to the following Resources:

Researcher Page: [Palmer, David Townsend](#)

Researcher Page: [Tam, Paul Kwong Hang](#)

### External Citations

ResearcherPage: **2**

No.	ResearcherPage	Total Counts / % Last week increase				
		Scopus	WoS	PubMed	Google Scholars Citations	Microsoft Academic Search
1	<a href="#">Palmer, David Townsend</a>	1 / 0%	0 / -	0 / -	22 / 0%	/ -
2	<a href="#">Tam, Paul Kwong Hang</a>	13735 / 0.39%	9352 / 0.22%	3731 / 0.59%	/ -	2835 / 0%

---

### Internal Metrics

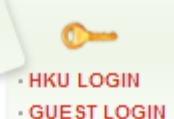
Items: **2**

No.	Items	Total Counts / % Last week increase		
		RP Views	Item Views	Item Downloads
1	<a href="#">Palmer, David Townsend</a>	15837 / 0.52%	19381 / 0.39%	7485 / 0.29%
2	<a href="#">Tam, Paul Kwong Hang</a>	28780 / 0.60%	141441 / 0.30%	9210 / 0.50%





Organizations!

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[Articles \(24,577\)](#)[Conference Papers \(18,693\)](#)[Books \(350\)](#)[Book Chapters \(952\)](#)[Journals Used](#)

### Researchers

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### Grants

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### Patents

[Patents \(451\)](#)

## Li Ka Shing Faculty of Medicine

### General Information

**Name:** Li Ka Shing Faculty of Medicine

**Tel:** 2819-9175

**Fax:** 2855-9742

**Address:** FMA

**Webpage:** <http://www.med.hku.hk>

### Key People

- Dean **Professor Leung, GM** 2819 9210
- Associate Dean **Professor Lau, WCS** 2255 3603
- Associate Dean **Professor Law, WL** 2255 4763
- Associate Dean **Professor Leung, SY** 2255 4401
- Associate Dean **Professor Wong, DSH** 3962 1413
- Faculty Secretary **Ms Tsang, JWS** 2819 9296

### Schools

Name	Director/Head
<a href="#">School of Chinese Medicine</a>	<b>Lao, L</b>
<a href="#">School of Nursing</a>	<b>Tiwari, AFY</b>
<a href="#">School of Public Health</a>	<b>Fielding, R</b>

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### Grants

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### Patents

[Patents \(451\)](#)

## Li Ka Shing Faculty of Medicine

### Publications (Journals Used)

Showing 1 to 25 of 2,893 entries

First Previous 1 2 3 4 5 Next L

ISSN	Journal Title	2012 SCImago	2012 Impact Factor	Articles
1024-2708	Hong Kong Medical Journal	0.255		702
1027-3948	Hong Kong Practitioner	0.119		461
1932-6203	PLoS One	1.512	3.730	249
0016-5085	GASTROENTEROLOGY		12.821	242
0270-9139	HEPATOLOGY		12.003	212
1015-9584	Asian Journal of Surgery	0.261	0.543	207
0021-9258	J BIOL CHEM		4.651	206
0815-9319	J GASTROEN HEPATOL		3.325	174
0140-6736	LANCET		39.060	167
1013-9923	Hong Kong Journal of Paediatrics	0.107	0.068	151
0022-538X	J VIROL		5.076	149
0095-1137	J CLIN MICROBIOL		4.068	139
0165-4608	CANCER GENET CYTOGEN		1.929	130
1027-7811	Journal of the Hong Kong College of Cardiology	0.000		130

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[ResearcherPages \(460\)](#)[RP - Honours, Awards & Prizes \(1,149\)](#)[RP - Editorships \(2,198\)](#)[RP - Committee Appointments \(1,913\)](#)[RP - Professional Societies \(2,669\)](#)

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### Grants (Current Grants)

Results 1-20 of 931

Result pages: 1 2 3 4 5 6 7 8 9 10

	Project Title	Investigator	Amount	Funding year
	A novel strategy for prevention and treatment of HIV-1 infection	Dr Zhang, Mei-Yun	HK\$998,088	2012
	The role of c-Myc in anti-mycobacterial responses: from bacterial killing to T cell activation	Dr Li, Chun Bong Professor Chan Godfrey Chi Fung	999880	2012
	Role of human cytomegalovirus-triggered immune response in graft injury after living donor liver transplantation	Dr Man, Kwan Professor Chan See Ching Dr Liu Xiaobing Dr Chen Zhiwei Dr Cheung Ka Loon Allen Professor Lo Chung Mau	999860	2012
	The epidemiology of influenza in households of school-age children	Dr Cowling, Benjamin John Professor Peiris Joseph Sriyal Malik Dr Ip Dennis Kai Ming	999700	2011
	Reconstitution and Characterization of HIV-specific Antibody Repertoires in vitro: Implications for Passive Immunization	Dr Zhang, Mei-Yun	999632	2010
	A community-based study of respiratory virus infections	Dr Cowling, Benjamin John Professor Peiris Joseph Sriyal Malik Dr Wu Joseph Tsz Kei	999544	2011

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[ResearcherPages \(460\)](#)[RP - Honours, Awards & Prizes \(1,149\)](#)[▶ RP - Editorships \(2,198\)](#)[RP - Committee Appointments \(1,913\)](#)[RP - Professional Societies \(2,669\)](#)

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## Li Ka Shing Faculty of Medicine

### Editorships (ResearcherPage - Editorships)

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Result pages: [previous](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [21](#) [22](#) [23](#) [24](#) [25](#) [26](#)

Editor	Period	Position	Journal / Conference
Poon, RTP	2010	Editorial Board Member (2009 - present)	Oncology Tribune
Poon, RTP	2010	Editor (November 2002 - present)	Digestive Surgery (Chinese)
Poon, RTP	2010	Editor	Surgical Management of Hepatobiliary and Pancreatic Disorders, 2nd edition
Poon, RTP	2010	Editorial Board Member (2007 - present)	Annals of Surgical Oncology
Poon, RTP	2010	Editorial Board Member (2008 - present)	World Journal of Gastroenterology
Lee, KW	2012	Journal editor	Journal of Liver: Disease & Transplantation
Lee, KW	2011	Journal editor	American Journal of Stem Cell Research
Lee, KW	2010	Journal editor	PLOS ONE
Poon, RTP	2010	Editor (2005 - present)	Cutting Edge (College Newsletter), The College of Surgeons of Hong Kong
Poon, RTP	2010	Editorial Board Member (2007 - present)	Journal of Gastrointestinal Surgery



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## Li Ka Shing Faculty of Medicine

External Metrics (Researchers) (Scopus, Web of Science & PubMed)

Showing 101 to 110 of 434 entries

[First](#) [Previous](#) [9](#) [10](#) [11](#) [12](#) [13](#) [Next](#) [Last](#)

Researchers	Total Citations (as of today)			
	Scopus	WoS	PubMed	GS Citations
Dr Cheung, ST	2545	1966	615	
Professor Chim, JCS	4204	2704	614	
Professor Ho, PC	6870	3797	596	
Professor Chung, SK	2456	2418	593	3804
Dr Wong, CM	1737	1520	554	
Dr Mak, JCW	3282	587	551	
Professor Hao, Q	1858	3235	550	2569
Dr Yeung, ML	1138	966	550	
Professor Lam, CW	3321	2665	548	4429
Dr Cheung, PT	2400	1792	542	

[First](#) [Previous](#) [9](#) [10](#) [11](#) [12](#) [13](#) [Next](#) [Last](#)

# The HKU Scholars Hub (The Hub)

-- A Current Research Information System (CRIS)

## HKU Sources

- Registry
- Research Services
- Graduate School
- Public Affairs
- Tech Transfer

## External Sources

- Scopus,
- WoS, ResearchID
- SSRN
- ACM Digital Library
- Google Scholar Citations
- Etc.

- Individual scholars
- Individual Depts

Collective Intelligence



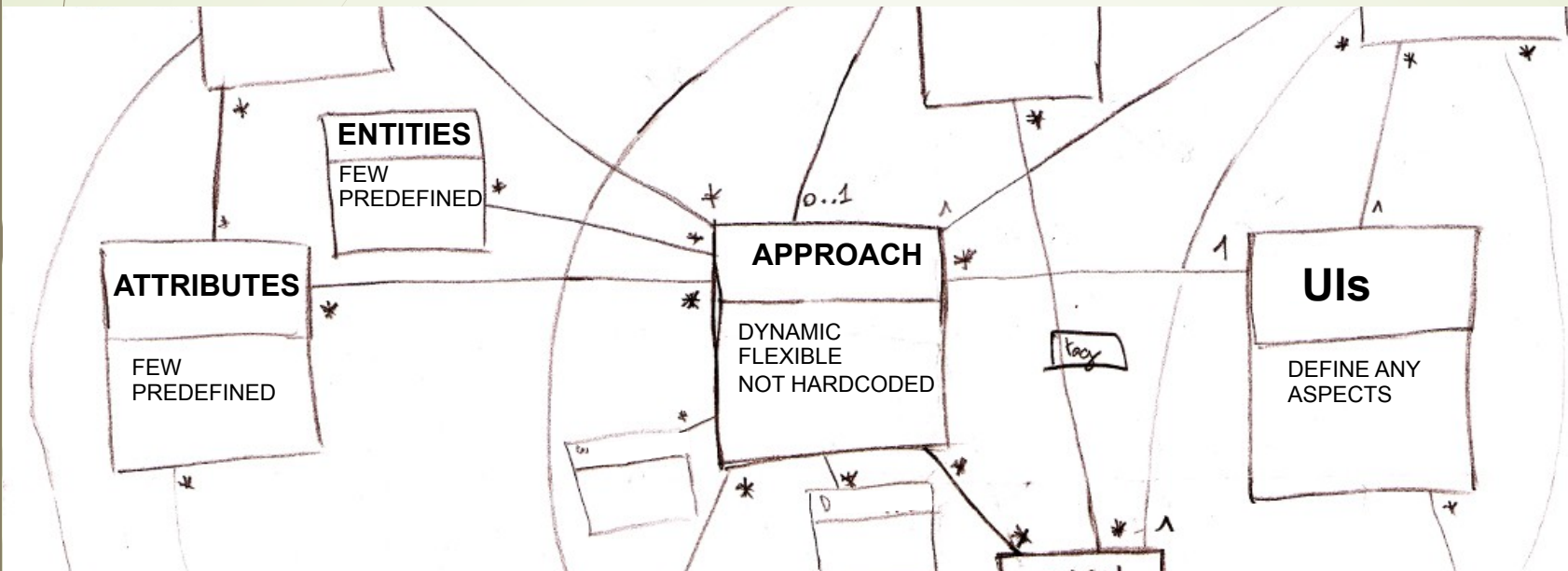
Librarians



Dspace-CRIS Data Model!



# Data model



**Standard Dspace** --> publications & dataset

**DSpace-CRIS** --> other CERIF entites:

/ ResearchPage


/ Project

/ OrgUnit

/ 2nd Level Dynamic Object

# Defining a DSpace-CRIS Entity

- ▶ UUID
- ▶ Public flag
- ▶ Dynamic Properties: each property can have its own **PropertyDefinition**
- ▶ System administrator can decide:
  - ▶ Repeatable
  - ▶ Mandatory
  - ▶ Underlying storage data type: String, int, double, date, html link, link to other entities
  - ▶ Start / End date
  - ▶ Scope: link to a Semantic/Classification Object (itself a DynamicObject)
- ▶ Nested object: can be repeatable, mandatory, and hold a list of other nested properties



# Main DSpace-CRIS Entities

## ResearcherPage

- To manage researcher profiles;
- Structural relations with System Users and pre-configured properties to manage name variants;
- Managed out-of-box by non-system administrators.

## Project and OrgUnit

- Defined as separate entities;
- Easy to develop future extensions, specializations, specific workflow and editing rules

## Second level Dynamic Object

- A single entity identified by a profile (type) as Journal, Prize, Event, etc.;
- Each profile can have its own set of properties and nested objects independently defined

# CERIF compliance

- Key components of CERIF Data Model are supported natively:

**UUID**

**timestamped relation**

**semantic  
charecterization**

- The Data Model flexibility shows how to configure instances with CERIF Data Model.

- The level of compliance depends on the configuration adopted by the Institution

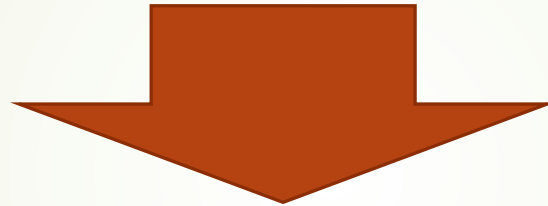
- **Some de-normalizations are recommended**

- easy to adapt when data is already available in other systems (i.e. Journal information stored in the publication record or funding information stored in the project record).

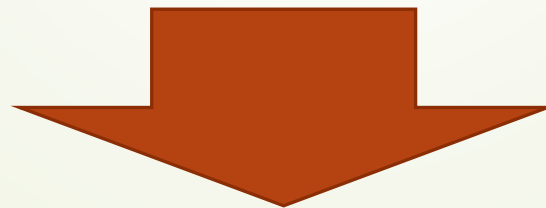


# A note on DSpace Metadata model

DSpace is known to support out-of-box the Dublin Core Initiative



Work to update from the current LoC profile provided with DSpace to a dcterms schematic is in progress



DSpace metadata model is not bound to DC, Qualified DC or any other schematic



CERIF!



# CERIF Compatibility


- ▶ Base configuration to map CRIS entities without making the system too complex for Universities.
- ▶ Further configurations could be provided as sample / addon for advanced users.
- ▶ Any installation will be able to map their specific configuration to CERIF using UI.
- ▶ A n:m mapping will be supported where a single DSpace-CRIS entity instance could be translated to more CERIF Entities and viceversa.

# DSpace metadata: a different point of view

## .. the technical agnostic one...


- Any metadata is characterized by a schema, element and qualifier but...
  - **schema** = bibliografic information, administrative metadata, etc.;
  - **element** = relation with people;
  - **qualifier** = the semantic of the relationship (author, editor, etc.)
- Which metadata are available, which repeatable and which mandatory is defined by configuration
- When allowed by the configuration, any metadata can hold a reference to another object (eg. Authority synonymies & hierarchies)





# Outcomes, Intended & Unexpected

- ▶ KE: Visibility on HKU research, community engaged
- ▶ KE: Dspace-CRIS
  - ▶ Open Source, Many players, mutual benefit
- ▶ Assist: Hong Kong Research Assessment (RAE) 2014 Exercise
- ▶ Support: HKU Manangement Information Unit
- ▶ Designated: HKU Data Archive
- ▶ Repurposed: HKU Library Cataloguing Dept



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