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<th>DSpace-CRIS@HKU: Achieving visibility with a CERIF compliant open source system</th>
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<td><strong>Author(s)</strong></td>
<td>Palmer, DT; Bolini, A; Mornati, S; Mennielli, M</td>
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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 \(\Rightarrow\) 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: Mashes Up to show integrated display
### Sources; dark & external

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The HKU Scholars Hub is the institutional repository of The University of Hong Kong. As a key vehicle of HKU’s Knowledge Exchange Initiative, The Hub strives to make HKU authors and their research very visible, with the goal of increasing all forms of collaboration.

QUICK SEARCH OF THE HUB

Search the author, title, abstract and series fields.

SEARCH

FEATURED SCHOLAR

Professor Au, TKF

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

Research Interests:
- Language development
- Conceptual development
- Health & science education

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.

RELEVANT LINKS

- HKU’s Top 1%
- HKU Authors: Open Access Publishing
- Usage Stats & Downloads
- HKU most cited articles in Scopus
- HKU research on Web of Science
- HKU Research & Scholarship
- HKU Libraries OA Policy
- HK Open Access Committee
Publications!
Article: Genome-wide copy number analysis uncovers a new HSCR gene: NRG3

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

Authors: Tang, CSM, Cheng, Q, So, MT, Yip, BHK, Miao, XP, Wong, EHM, Ngan, ESW, Lui, VCH, Song, YQ, Chan, D, Cheung, K, Yuan, ZW, Lei, L, Chung, PHY, Liu, XL, Wong, KKY, Marshall, CR, Scherer, S, Cherry, SS, Sham, PC, Tam, PKH, GarciaBarceló, MM

Keywords: Copy number variation

Publisher Website: 10.1371/journal.pgen.1002687
Scopus: eid_2-s2.0-84863680217
PMID: 22589734
WOS: WOS:000304864000018
Find via: WebBridge HKU Libraries
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.

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

Grants

Identification of functional variants in Neuregulin-1 (NRG1), a newly discovered Hirschsprung 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

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:
(dclick to check for cognate researchers)

- Compositional data
- Gambling
- Telephone survey methodology
- Privacy policy
- 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

Tel: 3917 1600
Office: CJT 815

Missing Publications?
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211 publications indexed in the Hub. Of these:

- **Web of Science:** 83 are found in WoS, with 1931 citations
- **PubMed:** 106 are found in PubMed, with 290 citations
- **CiteULike:** 20 are found in CiteULike, of which 4 bookmarked.
- **F1000:** 4 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
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!

---

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Organizations!
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
- Associate Dean
- Associate Dean
- Associate Dean
- Associate Dean
- Faculty Secretary

Professor Leung, GM 2819 9210
Professor Lau, WCS 2255 3603
Professor Law, WL 2255 4763
Professor Leung, SY 2255 4401
Professor Wong, DSH 3962 1413
Ms Tsang, JWS 2819 9296

Schools

- School of Chinese Medicine
  - Lao, L
- School of Nursing
  - Tiwari, AFY
- School of Public Health
  - Fielding, R
### Publications (Journals Used)

**Showing 1 to 25 of 2,893 entries**

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## Li Ka Shing Faculty of Medicine

### Grants (Current Grants)

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<td>Dr Zhang, Mei-Yun</td>
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| The role of c-Myc in antimycobacterial 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         |
### Organization Data

- **General Information**
- **Faculty Newsletter**
- **Teaching List, Current (813)**

### Publications

- **Articles (24,577)**
- **Conference Papers (18,693)**
- **Books (350)**
- **Book Chapters (952)**
- **Journals Used**

### Researchers

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

### Grants

- **Current (931)**
- **Completed (1,660)**

### Patents

- **Patents (451)**

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### Li Ka Shing Faculty of Medicine

#### Editorships (ResearcherPage - Editorships)

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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.

Collective Intelligence

Librarians

- Individual scholars
- Individual Depts
Dspace-CRIS Data Model!
Data model

**Standard Dspace** --&gt; publications & dataset

**DSpace-CRIS** --&gt; other CERIF entities:

/ ResearcherPage
/ 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 characterisation

- 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 vice versa.
DSpace metadata: a different point of view

.. the technical agnostic one...

- Any metadata is characterized by a schema, element and qualifier but...
  - **schema** = bibliographic 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 (e.g. Authority synonyms & 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 Exercise (RAE) 2014
- Support: HKU Management Information Unit
- Designated: HKU Data Archive
- Repurposed: HKU Library Cataloguing Dept
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David T Palmer
• http://hub.hku.hk/cris/rp/rp00001
• http://orcid.org/0000-0001-5616-4635

Andrea Bollini
Susanna Mornati
Michele Mennielli