Moving from an IR to a CRIS
- the Why & How

David T Palmer
The University of Hong Kong (HKU)
ONI Membership Meeting, San Antonio, 4-5 Apr 2013
Institutional Repository (IR)
IR: What is it?

• “An institutional repository is an online locus for collecting, preserving, and disseminating - in digital form - the intellectual output of an institution, particularly a research institution” -- Wikipedia (November 2012)

• Academic Institution: journal articles, theses, learning objects
  – Publications

• Why?
  – Provide Open Access
  – Create global visibility
  – Collect content in a single location
  – Preservation
Current Research Information System (CRIS) a.k.a. Research Information Management System (RMIS)
CRIS: What is it?

“A Current Research Information System, commonly known as "CRIS", is any information tool dedicated to provide access to and disseminate research information, such as People, Projects, Organizations, Results (publications, patents and products), Facilities, and Equipment.” – “EuroCRIS”, Wikipedia (Nov 2012)

- for researchers: easy access to relevant information
- for research managers and administrators: easy measurement and analysis of research activity
- for research councils: optimisation of the funding process
- for entrepreneurs and technology transfer organizations: easy retrieval of novel ideas and technology in a knowledge-assisted environment and easy identification of competitors and previously done similar research
- for the media and public: easy access to information, software and computer power to allow easily-assimilated presentation of research results in appropriate contexts.
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CERIF 1.3 Entities (Types in Colors)

Diagram showing entities and relationships in CERIF 1.3:
- Funding
- ExpertiseAndSkills
- Qualification
- Prize
- CV
- Citation
- Metrics
- Person
- ResultPublication
- ResultPatent
- ResultProduct
- Project
- OrganisationUnit
- Indicator
- Measurement
- Event
- Language
- Currency
- ElectronicAddress
- PostalAddress
- GeographicBounding Box
- Country
- Facility
- Service
CRIS flavours

• Internal only?
  – Research & decision support

• Public also?
  – Knowledge Exchange, Knowledge Translation, Knowledge Transfer

• Built in one integrated whole?
• Distributed, with APIs calling on-the-fly, other databases
CRIS flavours

• Internal only?
  – Research & decision support

• Public also?
  – Knowledge Exchange, Knowledge Translation, Knowledge Transfer

• Built in one integrated whole?

• Distributed, with APIs calling on-the-fly, other databases
HKU’s IR → CRIS

Evolution
The HKU Scholars Hub

- 2005 begun,
  - Publications
  - Open Access
- Not compelling with faculty

- 2009 “Knowledge Exchange”
  - New funding, from HKU KEO
  - New interest, from faculty
- An exchange of research and skills between HKU and its community for mutual benefits
- A database or exchange hub to enable, facilitate and measure HKU’s KE
The HKU Scholars Hub

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The backend

- With our partners, CINECA of Italy
- Dspace: Postgres tables
- Relational tables
  - Publications
  - ResearcherPages (People)
  - Grants
  - Soon: depts/ctrs & other entities
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

The HKU Scholars Hub at the Centre of HKU

FEATURED SCHOLAR

Professor Chang, EC

- Dean (Faculty of Business and Economics)
- Quoin Professorship in Finance; and Professor; Chair of Finance

Research Interests:
- Derivative securities
- International finance
- Capital asset pricing

+ MORE

HUB NEWS

Mar 2013: Membership in professional societies added to ResearcherPages.

Mar 2013: Affiliations for coauthors shown when known. An example

Feb 2013: Grant data added to publication records when known. An example

Jan 2013: Web service for extracting Hub data. Interested? Write!

More

RELEVANT LINKS

- HKU's Top 1%
- HKU Authors: OA 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
- Open Access Tracking Project
Publications!
### Article: Understanding Australia's influenza pandemic policy on the strategic use of antiviral drug stockpile

#### Authors
- McCaw, JM
- Wood, JG
- McBryde, ES
- Nolan, TM
- Wu, JT
- Lipsitch, M
- McVernon, J

#### Issue Date
2009

#### Publisher

#### Citation

#### Abstract
Targeted post-exposure prophylaxis represents a more efficient use of antiviral treatment alone.

#### ISSN
0025-729X

#### Impact Factor
2011 Impact Factor: 2.813

#### SCImago Journal Rankings
2011 SCImago Journal Rankings: 0.151

#### ISI Accession Number
WOS:000269171100005

#### PubMed Central Identifier
PMC3073016

#### References
- Community Medicine: Journal/Magazine Articles
- References in Scopus

#### Author Affiliations
1. Harvard School of Public Health
2. The University of Hong Kong
3. Royal Melbourne Hospital
4. University of Melbourne
5. University of New South Wales
Article: Understanding Australia's influenza pandemic policy on the strategic stockpile of antiviral drugs.

Authors:
- McCaw, JM
- Wood, JG
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ISI Accession Number ID: WOS:000269171100005
PubMed Central ID: PMC3073016

Author Affiliations:
1. Harvard School of Public Health
2. The University of Hong Kong
3. Royal Melbourne Hospital
4. University of Melbourne
5. University of New South Wales
Article: Understanding Australia's influenza pandemic policy on the strategy of the antiviral drug stockpile
prevention and treatment of cerebrovascular disorders. However, the mechanism responsible for such protective effects remains largely unknown. It has been considered that cerebral endothelium apoptosis caused by reactive oxygen species including hydrogen peroxide (H2O2) is implicated in the pathogenesis of cerebrovascular disorders. Methodology and Principal Findings. By examining the effect of Sal B on H2O2-induced apoptosis in rat cerebral microvascular endothelial cells (rCMECs), we found that Sal B pretreatment significantly attenuated H2O2-induced apoptosis in rCMECs. We next examined the signaling cascade(s) involved in Sal B-mediated anti-apoptotic effects. We showed that H2O2 induces rCMECs apoptosis mainly through the PI3K/ERK pathway, since a PI3K inhibitor (LY294002) blocked ERK activation caused by H2O2 and a specific inhibitor of MEK (U0126) protected cells from apoptosis. On the other hand, blockage of the PI3K/Akt pathway abrogated the protective effect conferred by Sal B and potentiated H2O2-induced apoptosis, suggesting that Sal B prevents H2O2-induced apoptosis predominantly through the PI3K/Akt (upstream of ERK) pathway. Significance. Our findings provide the first evidence that H2O2 induces rCMECs apoptosis via the PI3K/MEK/ERK pathway and that Sal B protects rCMECs against H2O2-induced apoptosis through the PI3K/Akt/Raf/MEK/ERK pathway.

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**ISI Accession Number ID**

WOS: 000207459600009

**Funding Agency**

- Research Grant Council of Hong Kong
- Hong Kong Baptist University

**Grant Number**

- HKU 7636/05M
- FRG/06-07/I-07
- FRG/06-07/I-43

**Funding Information:**

This work was supported by a grant (HKU 7636/05M) from the Research Grant Council of Hong Kong awarded to Dr. J.D. Huang, and was also supported by grants (FRG/06-07/I-07 and FRG/06-07/I-43) from Hong Kong Baptist University awarded to Dr. M. Li. The funders had no roles in the design and conduct of the study, in the collection, analysis, and interpretation of the data, and in the preparation, review, or approval of the manuscript.

**PubMed Central ID**

PMC2117346

**References**

References in Scopus

**Grants**

- Role of kinesin-mediated intracellular transportation in Alzheimer's Disease
- Role of kinesin-mediated intracellular transportation in Alzheimer's Disease
People!
or enter initial letters to jump into index at that point:

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

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HKU Researcher Page: Bacon-Shone, JH

Contact Information

Professor Bacon-Shone, John Hugh

Tel: 3917 1600
Office: CJT 815
Dept: Social Sciences Research Ctr
Faculty: Faculty of Social Sciences

Research Interests: (click to check for cognate researchers)
- Compositional data
- Gambling
- Immigration and population policy
- Privacy policy
- Telephone survey methodology

My URLs:
- Biography
- Google Scholar Citations

Also Cited As:
- Bacon-shone, John
- Bacon-shone, J
- Baconshone, J
- Bacon-Shone, J
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<td>Research Achievements</td>
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## HKU Researcher Page: Tsui, ABM

### Profile
- Contact Information
- Networks of Collaboration
  - Visualized
  - Tabulated
- Publications
  - Articles (38)
  - Conf. Papers & Presentations (28)
  - Books (Authored) (8)
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  - Book Chapters (41)
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### Achievements
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- Editorship (31)
- Supervision of Research Postgraduate Students (15)
- HKU Committee Appointments (50)

### Grants
- Principal Investigator (11)
- Co-Investigator (4)

### Supervision of Research Postgraduate Students

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<tr>
<th>Admission Year</th>
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<td>English Teacher Education</td>
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<td>2008</td>
<td>Phd Imafuku Rintaro</td>
<td>Sociolinguistics, Discourse Analysis, Problem-based Learning Curriculum</td>
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<td>2005</td>
<td>Phd Harfitt</td>
<td>Classroom Interaction, Small Class Teaching</td>
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</table>

### Professor Tsui, Amy Bik May
- Pro-Vice-Chancellor and Vice-President (Teaching and Learning)
- Professor: Chair of Language and Education

### Dept:
- Education Faculty
- V-C’s Office

### Faculty:
- Faculty of Education
Professor Chow, Billy Kwok Chong

- Professor
- Dept: School of Biological Sciences
- Faculty: Faculty of Science

External Metrics

Scopus (1996 ~ )

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BiomedExperts

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211 publications indexed in the Hub. Of these:

- 83 are found in WoS, with 1668 citations
- 103 are found in PubMed, with 209 citations
- 20 are found in CiteULike
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## External Sources

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Quantifying the urban heat island (UHI) intensity in Hong Kong

Siu, Leong-wai

Issue Date: 2011

University of Hong Kong (Pokfulam Road, Hong Kong)

Abstract

The definition and quantification of urban heat island (UHI), the air temperature differences between urban and rural areas, remains problematic. This is due, in large part, to the difficulty of operationalizing the terms "urban" and "rural", especially with regard to classifying the weather stations that provide data. This thesis studies the urban heat island (UHI) intensity in Hong Kong and there are three foci in the research. The first focus of this study is the determination of the urban and rural weather stations in Hong Kong. The Local Climate Zones (LCZ) system has been employed to classify 17 weather stations and field observation was the main technique to collect the necessary metadata. Six field trips were arranged in the summer of 2009 and 2010. Hong Kong Observatory Headquarters (HKO) is considered as the only representative urban station, whilst Tsak Yue Wu station (TYW) is deemed as the representative rural station because of its Forest Zone (NCZ1) classification. Ta Kwu Ling station (TKL) is another reference rural site. The second focus is the quantification of the UHI intensities at six pairs of stations in Hong Kong and their diurnal and seasonal variations. The 19-year annual UHI intensities in Hong Kong suggest that the representative rural sites (TYW and TKL) also record representative UHI intensities for the region. The differences of the cooling rate at urban and rural stations drive the diurnal cycle of urban heat island. The seasonal variations of UHI intensities are also driven by the cooling rate differences of urban and rural stations in different seasons. Since the mean maximum urban cooling rate does not vary considerably throughout the seasons (0.4 – 0.5 °C/hr), it is the alteration of the rural cooling rate (1.0 – 1.6 °C/hr at TYW; 0.9 – 1.2 °C/hr at TKL) which determines the seasonal variations of UHI intensities. The mean daily maximum UHI intensities in Hong Kong are greatest in winter. The final focus is the meteorological impacts on the UHI intensity in Hong Kong. Five meteorological elements, including air temperature, wind speed, vapour pressure, cloud cover, and cooling rate, have been separately investigated to establish their impacts on the UHI intensity. Under finer weather conditions, the first four elements are negatively related to the UHI intensity. Sixteen regression models were built after the use of stepwise procedures which optimize the combination of independent variables. Rural air temperature is considered the most important meteorological factor on the UHI intensity. The models also suggest that there are other factors affecting the UHI intensities in spring and summer.

Advisors

Pearl, MR

Hart, MA

Degree

Master of Philosophy

Subject

Urban heat island - China - Hong Kong.

Urban temperature - China - Hong Kong.

Geography

DOI

http://dx.doi.org/10.5353/th_b4569256

HKU Library Item ID

b4569256
**Grant: Reinfoced concrete coupling beams with embedded steel plate**

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**Publication**

- Effects of shear connectors on plate-reinforced composite coupling beams of short and medium-length spans
- A survey on axial load ratios of structural walls in medium-rise residential buildings in Hong Kong
- Seismic behaviour of slender reinforced concrete shear walls under high axial load ratio
- Experimental study on embedded steel plate composite coupling beams
- A brief summary of parametric study of plate-reinforced composite coupling beams
- Strengthening of reinforced concrete coupling beams by bolted steel plates
- The effects of shear connectors on plate-reinforced composite coupling beams
Patents!
## Patent Sources

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**Granted Patent:** Luminescent Gold (iii) Compounds, Their Preparation, And Light-emitting Devices Containing Same

**Title:** Luminescent Gold (iii) Compounds, Their Preparation, And Light-emitting Devices Containing Same

**Granted Patent:** US 7572912

**Granted Date:** 2009-08-11


**Inventors:**
- Yam, Vivian Wing Wah
- Wong, Keith Man Chung
- Kwok, Hoi-sing
- Zhu, Xiuling

**Citation:** US Patent 7572912. Washington, DC: US Patent and Trademark Office, 2009

**Abstract:** A class of luminescent gold(III) compounds with a tridentate ligand and at least one strong σ-donating group having the chemical structure represented by the general formula [I]: #STR# wherein R.sub.1-R.sub.4 each independently represent the group containing hydrogen, halogen, alkyne, substituted alkyne, alky, substituted allyl, heteroaryl, substituted heteroaryl, alkoxyl, substituted alkoxyl, αino, substituted amino, cyano, nitro, alky carbonyl, alkoxy carbonyl, aryl carbonyl, aryloxycarbonyl, mono- or dialkylaminocarbonyl, alky carbonyloxy, aryloxycarbonyloxy, aryloxycarbonyl, aryloxycarbonyloxy group, and the like; X, Y and Z each independently represent a heteroatom or a carbon; #STR## represents an aromatic or heterocyclic 5- or 6-membered ring; α, and β each independently represent a bridge for an aromatic or heterocyclic 5- or 6-membered ring or represent a break for non-aromatic moiety; C-X, C-Y and C-Z each independently represent a single bond or double bond; n represents a zero or an integer; p, q and r represent positive integers.

**Persistent Identifier:** http://hdl.handle.net/10722/142108

**Cites:** US 20030040627
**Published Patent:** Methods using *Lycium barbarum* extracts as neuroprotective agents for retinal ganglion cells degeneration

**Title:** Methods using *Lycium barbarum* extracts as neuroprotective agents for retinal ganglion cells degeneration

**Priority Date:** 2005-02-25

**Inventors:**
- So, KF
- Yuen, WH
- Chang, RCC
- Zee, SY

**Citation:** US Published patent application US 20050196478, 2005

**Abstract:** An *Lycium barbarum* extract demonstrates a neuroprotective effect on damaged retinal ganglion cells, preventing and preserving retinal ganglion cells from degeneration in the treated subjects after chronic and traumatic neuronal injury or glaucoma. Compositions include an effective amount of an agent and a pharmaceutically acceptable vehicle.

**Persistent Identifier:** http://hdl.handle.net/10722/45673

**Publication:** Neuroprotective effects of anti-aging oriental medicine *Lycium barbarum* against b-amyloid peptide neurotoxicity
Visualizations!
# Networks: Bacon-Shone, JH

## Co-Authors

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## Keywords in Publications

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- **Impact Management System**
  - Research outputs
  - Impact metrics
  - Professional Activities
  - Measures of Esteem
  - Community, Industry & Policy impact, etc
- **Research Networking System**
  - to discovery & use scholarly information
  - to facilitate the development of new collaborations & team science
  - have analytical capabilities that enable evaluation of scholarly activity over time
  - makes data available for broad repurposing
- **Research Profiling System**
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