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<th>Moving from an IR to a CRIS, the why &amp; how</th>
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<td><strong>Author(s)</strong></td>
<td>Palmer, DT</td>
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Moving from an IR to a CRIS
-- the Why & How

David T Palmer
The University of Hong Kong (HKU)
CNI Membership Meeting, San Antonio, 4-5 Apr 2013
Institutional Repository (IR)

Definition
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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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
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
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- A database or exchange hub to enable, facilitate and measure HKU’s KE
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.

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

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!

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
Article: Understanding Australia's influenza pandemic policy on the strategic use of the antiviral drug stockpile

Title: 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: Australasian Medical Publishing Company Pty Ltd. The Journal’s website is http://www.mja.com.au

Citation: Medical Journal of Australia, 2009, v. 191 n. 3, p. 136-137

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

ISSN: 0025-729X

2011 Impact Factor: 2.813

2011 SCImago Journal Rankings: 0.151

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

References: References in Scopus
Understanding Australia's influenza pandemic policy on the strategy for 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 CMECs against H2O2-induced apoptosis through the PI3K/Akt/Raf/MEK/ERK pathway. (2007 Liu et al.)

ISSN 1932-6203
2011 Impact Factor: 4.092
2011 SClmago Journal Rankings: 0.519

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/II-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/II-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

Role of kinesin-mediated intracellular transportation in Alzheimer's Disease
Role of kinesin-mediated intracellular transportation in Alzheimer's Disease
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HKU Researcher Page: Bacon-Shone, JH

Profile

Contact Information

Networks of Collaboration

Visualized
Tabulated

Publications

Selected Publications (4)
Articles (44)
Conf. Papers & Presentations (21)
Books (Authored) (7)
Book Chapters (11)

Achievements

Professional Qualifications (3)
Media Contact Directory (12)
Community Service (6)
Supervision of Research Postgraduate Students (11)
HKU Committee Appointments (37)

Grants

Principal Investigator (6)
Co-Investigator (16)

Contact Information

Professor Bacon-Shone, John Hugh

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
## Honours, Awards & Prizes

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<td>Honorary Selection Award &amp; Prize (Premio de Trabalhos Selecionados), Public Competition for the Architectural Concept of the New Port Authority Building and Surrounding Environment (Concurso Publicao para o Projecto de Concepcio Arquitectonica do Novo Edificio da Capitania dos Portos e Optimizao da Zona Envolvente), Macau, SAR: Capitania dos Portos, Macau, SAR Servicdos de Solos, Obras Publicas e Transporte, Macau, SAR (Government of Macau, SAR, China), Capitania dos Portos/Direccio dos Servicdos de Solos (Maca), Macau, SAR, China</td>
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<td>01-11-2007</td>
<td>Winning Entry, Design Ideas Competition for Marina South Residential District, Singapore: Singapore Institute of Architects, Urban Redevelopment Authority - Singapore Government</td>
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<tr>
<td>01-09-2006</td>
<td>Honorary Mention Award (Profesional Category), International Architectural Competition 'Celebration of Cities 2' - UIA in collaboration with UNESCO, 2006: Union of International Architects (UIA) in collaboration with UNESCO - Awarded and Exhibited at the Venice Biennale:</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)
- Books (Edited) (1)
- Book Chapters (41)

### Achievements
- Media Contact Directory (9)
- Editorial (31)
- Supervision of Research Postgraduate Students (15)
- HKU Committee Appointments (50)

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

---

**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

---

**Supervision of Research Postgraduate Students**

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<td>English Teacher Education</td>
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<td>Rong Xiaoyan</td>
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<tr>
<td>2008 Phd</td>
<td>Sociolinguistics, Discourse Analysis, Problem-based Learning Curriculum</td>
<td>Cross-cultural Adaptation and Second Language Acquisition: A Study of International Students in Universities of the People’s Republic of China</td>
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<td>2005 Phd</td>
<td>Cross-cultural Psychology and Applied Linguistics</td>
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**Others (1)**

**Contact Information**

**Networks of Collaboration**

**Publications**

**Achievements**

**Grants**
Professor Chow, Billy Kwok Chong

Dept: School of Biological Sciences
Faculty: Faculty of Science

Scopus (1996 ~ )
- AuthorID: 7102826193
- Document Count: 111
- Total Citations: 2032 total citations by 1384 documents
- h Index: 24
- Co-authors: 150

BiomedExperts
- PersonDetailpage: 239266
- Co-authors: 103
- Publications: 95

Google Scholar Citations
- Author Profile: kjfd3oAAAAA
- Citations: 2485
- h-index: 28
- i10-index: 76

Web of Science: 83 are found in WoS, with 1668 citations
PubMed: 103 are found in PubMed, with 209 citations
CiteULike: 20 are found in CiteULike.

211 publications indexed in the Hub. Of these:
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<td>Cloning and characterization of a PAC1 receptor hop-1 splice variant in goldfish (Carassius auratus)</td>
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<td>CpG Methylation and Transcription Factors Sp1 and Sp3 Regulate the Expression of the Human Secretin Receptor Gene</td>
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<td>Differential expression of human gonadotropin-releasing hormone receptor gene in pituitary and ovarian cells</td>
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<td>Discovery of a new reproductive hormone in teleosts: Pituitary adenylate cyclase-activating polypeptide-related peptide (PRP)</td>
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<td>Discovery of growth hormone-releasing hormones and receptors in nonmammalian vertebrates</td>
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<td>47</td>
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<td>Effective melanoma immunotherapy with interleukin-2 delivered by a novel polymeric nanoparticle</td>
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Theses & Dissertations!
Quantifying the urban heat island (UHI) intensity in Hong Kong

Authors
Siu, Leong-wai

Issue Date
2011

Publisher
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 fine 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
Pearce, M.R.
Hart, M.A.

Degree
Master of Philosophy

Subject
Urban heat island - China - Hong Kong.
Urban temperature - China - Hong Kong.

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

HKU Library Item ID
b4569256
**Grant:** Reinforced concrete coupling beams with embedded steel plate

<table>
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| Principal Investigator | Su, Kai Leung  
Co-Investigator(s) | Pam, Hoat Joen |
| Funding Year | 2003/2004 |
| Amount | 25000 |
| Start Date | 01-10-2003 |
| Expected Completion | 30-09-2005 |
| Status | On-going |
| Sponsor | RGC Projects (Block Grant) |
| Grant Type/Funding Scheme | Merit Award for RGC GRF Funded Projects |
| Duration | 24 |
| Objectives | N/A |

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

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<td><strong>Inventors</strong></td>
<td>Yam, Vivian Wing Wah  WONG, KEITH MAN CHUNG  KWOK, HOI-SING  ZHU, XUILING</td>
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<td><strong>Citation</strong></td>
<td>US Patent 7572912. Washington, DC: US Patent and Trademark Office, 2009 [How to Cite?]</td>
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**Abstract**

A class of luminescent gold(III) compounds with a tridentate ligand and at least one strong sigma-donating group having the chemical structure represented by the general formula: $\text{R.sub.1-R.sub.2-R.sub.3}$, wherein $\text{R.sub.1}$ and $\text{R.sub.2}$ each independently represent the group containing hydrogen, halogen, alkyne, alkyl, substituted alkynyl, alkyne, substituted alkynyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, alkoxycarbonyl, substituted alkoxycarbonyl, amino, substituted amino, cyano, nitro, alkylcarbonyl, alkoxycarbonyl, arylcarbonyl, arylcarbonyl, mono- or dialkylaminocarbonyl, alkylcarbonyloxy, arylcarbonyloxy, arylcarbonyl, arylcarbonyloxy group, and the like; X, Y and Z each independently represent a heteroatom or a carbon; $\#\text{STR00002}\#$ represents an aromatic or heterocyclic 5- or 6-membered ring, alpha and beta each independently represent a bridge for an aromatic or heterocyclic 5- or 6-membered ring or represent a break for non-aromatic moity; 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

Basic View

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

Priority Date: 2005-02-25 US 11/066628

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

Citation: US Published patent application US 20050196478. Washington, DC: US Patent and Trademark Office (USPTO), 2005 [How to Cite?]

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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    • Citation totals, and % of monthly increase
    • Alt metrics: number of views and downloads
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  – Supply citation counts for HK University Grants Committee (UGC) RAE
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  – Proactive & reactive measures to enhance & protect reputation

• 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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