• External and Institutional Context
• Library Response
• Projects:
  – Find an Expert
  – Research Systems Upgrade
  – Thomson project
  – Research Data Repository
  – ANDS projects:
    • Seeding the Commons
    • Data Capture
• Changing Context
- $708M audited research expenditure (2009)

- # 36 Times Higher Education World University Rankings 2010

- # 73 in the Shanghai Jiao Tong Academic Ranking of World Universities 2008
Research Performance

Research Income

Publications
We are strong on historical measures of research......

**Citations**

**Impact**

Major contributions to public policy

Distinguished by breadth of activity

Arts and Humanities – 17; Engineering/Technology – 29; Life Sciences and Biomedicine – 13; Natural Sciences – 23; Social Sciences – 19
- Interdisciplinary activity
- Demand for social benefit
- Governments research priorities and large scale investment
- Powerful and costly technology platforms
- Knowledge generation and life long learning
- Globalisation – increased international competition and evaluation
- Partnerships and co-location of industry and universities
- Library Collections
- Data Storage
- Genomics/Proteomics
- Animal Housing and Breeding
- Network Connectivity
- Research Dataset Management
- Plant Growth
- Visualisation
- Informatics/Bioinformatics
- Collections
- Research integration in undergraduate programs
  - Primary sources via Archives and Special Collections
- Breadth subjects
- Institutional repository
- Publications data capture
- Custom Book Centre
- Digitisation – Centre open March 2010
- Research Data Management
Sakai@Melbourne

Sakai@Melbourne is a powerful platform supporting research collaboration at the University of Melbourne. Supported collaboration tools include forums, wikis, portfolios, and other web-based tools to distribute resources and documents. More about Sakai...

Who can use Sakai?

University of Melbourne researchers and their project team members, postgraduate students, and professional staff, are all able to set up a site in Sakai using their Unimelb email login details. The site leader can invite individuals from other institutions into their Sakai sites.

Sakai does not replace subject sites on the LMS for learning and teaching activity, and is not directly available to undergraduate students to create their own sites.

All Sakai users are subject to the University of Melbourne copyright compliance policy.

Contribute to the development of Sakai@Melbourne

If you have a few extra minutes, please take our brief online survey to help our Sakai support group to be better informed about your use of Sakai.
UpSkills Series:
- E-publishing Your Thesis and Research Papers
- Copyright, Your Thesis and Future Publications
- Research Data Management – humanities
- Research Data Management – sciences
- Tools for Collaboration and Networking – wikis, blogs and social bookmarking
- Using the Web for Surveys
- Legal Framework for Your Thesis

[Ref: Jennifer Warburton e-Research Australasia 2009]
Research is Distributed [Porter]

Central Administration
- Researchers
- Ethics
- Publications
- Grants

Research Projects

Granting Body

Research Projects

High performance computing environment

Virtual Organization

Research Projects

The University of Melbourne

THE EVOLUTION STARTS HERE
The University Research Information Network [Porter]

- Media
- Students
- Industry
- Philanthropists

Cross Discipline Research

University Research Information Network

- Public Layer
- Policy
- Private Layer

(University & Research Administration)
## Experts: Historical Studies

Head of School: Prof Joy Damousi

### Researchers
- DR FAY AMANDA ANDERSON
- DR ANDREW JAMES BROWN-MAY

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### Experts by Organization

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### DR FAY AMANDA ANDERSON

**Grants and Contracts**

Research Grants, Contracts and Consultancies awarded to the University of Melbourne as the administering institution (since 2003) as recorded in Thelma's Agreements.

<table>
<thead>
<tr>
<th>Grants</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>WITNESSES TO WAR: AUSTRALIAN WAR CORRESPONDENTS FROM THE BoER WAR TO THE GULF WAR</td>
<td>Chief Investigator</td>
</tr>
<tr>
<td></td>
<td>C.E.W. BEAN FOUNDATION, NATIONAL LIBRARY OF AUST, AUST RESEARCH COUNCIL</td>
</tr>
</tbody>
</table>
Screenshots from systems available in 2010...

Research Systems Upgrade Project

Search and Explore

Individual data

Organisational data

Prototype Only: Development Data
GORDON, A/PROF IAN ROBERT (Ian)

Researcher - Publications


Publication Year : 2008, Description : Journal Articles Refereed

<table>
<thead>
<tr>
<th>Publication Title</th>
<th>Publisher Name</th>
<th>Journal Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect of radial artery or saphenous vein conduit for the second graft on 6-year</td>
<td>Unknown Publisher</td>
<td>European Journal of Cardio-Thoracic Surgery</td>
</tr>
<tr>
<td>coronary artery bypass grafting. Results of a randomised trial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prevalence of sleep disordered breathing in paroxysmal and persistent atrial</td>
<td>Unknown Publisher</td>
<td>European Heart Journal</td>
</tr>
<tr>
<td>fibrillation patients with normal left ventricular function</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leukemia inhibitory factor signaling modulates both central nervous system</td>
<td>Unknown Publisher</td>
<td>Glia</td>
</tr>
<tr>
<td>demyelination and myelin repair</td>
<td></td>
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Publication Year : 2007, Description : Journal Articles Refereed

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</table>

Prototype Only: Development Data
• Project with Thomson Reuters
• 70% hit rate for UoM publications data
  – Discovery from Thomson
  – Matching against HR database
  – Verification with academics
  – Download into enterprise system
  – Integrate with dashboard
Name ambiguity and attribution are persistent, critical problems embedded in the scholarly research ecosystem. The ORCID Initiative represents a community effort to establish an open, independent registry that is adopted and embraced as the industry’s de facto standard.

Members include: Thomson Reuters, Nature Publishing Group, UCL, Wiley, British Library

http://orcid.securesites.net/
• Standards based metadata store
• ANDS pilot for a large research university
• Collaboration with Cornell – Vitro open source standards based software
• Versi collaboration
• Potential to widen to include:
  – QUT/Griffith
  – UWA
  – Other universities with deployment via state based e-Research organisations (Versi, Intersect, IVEC)
Seeding the Commons

- Management of Research Data and Records Policy
  - Approved 2005 + Revised 2010
  - Minimum requirements
    - Accurate, complete, authentic and reliable
    - Identifiable, retrievable and available
    - Secure
    - Retained for minimum of 5 years after publication
- Pre seed with Find an Expert Data
- Scan publications for references to data
- Create Skeleton Research Data Records
- Infer details about data from publication
- Program of work under ANDS

[Refer: Simon Porter and Anna Shadbolt e-Research Australasia 2009]
Data Capture

• Generally not being pursued by other University Libraries
• Suite of projects to collect metadata via instrumentation or electronic means
• Suite of high project sub-projects planned
• Projects of national significance
• Multi-disciplinary
• E.G. Mouse histopathology, neuropsychiatry, youth (Gen X and Y), convict health, video data in education, neuro-imaging
~35 Institutes, strong connectivity between basic and clinical research

10,000 Researchers/3,500 Research Students

200 Fellows of Learned Academies (16 FRS)

9/23 Australia Fellows; 16 Federation Fellows

26% of all NHMRC Funding; $1.3bn expenditure

10,000 publications

Commercial outcomes – Bionic Ear, Recaldent, CSFs, Vaccines, Relenza….

16 Federation Fellows

24% of publications IF>20

$1.3bn annual research expenditure

International and commercial partnerships
Prof Doug Hilton (WEHI):

- The strength of the Parkville Campus is the diversity of institutions, working at very high levels and that are closely located.

- Proximity of university, research institutes, pharmaceutical companies (e.g. CSL), spin-offs and hospitals: help us take our discoveries from the bench to the bedside.
Melbourne Neuroscience project
  - Parkville and Austin Hospital
Doherty Institute for Infection and Immunity
  - $100M super computer
  - Bioinformatics capability

Goal to be in world’s top 5 biotechnology hubs (e.g. Boston and San Diego)

DVCR Professor Peter Rathjen:
  - Value lies in strength of whole as opposed to separate parts
  - Train students into research corporate culture.
$1Billion from Commonwealth and State governments

Includes:

- Peter McCallum Cancer Centre
- Ludwig Institute for Cancer Research
- Melbourne Health including Royal Melbourne Hospital and Royal Women’s Hospital
- The University of Melbourne
- Walter and Eliza Hall Institute of Medical Research
$100M investment

Victorian government, Melbourne, Monash + Victorian, Australian and International collaborators

Strengthens research capabilities and outcomes of Victorian life sciences research

Life Sciences Collaboratory on the University of Melbourne campus - the first IBM research collaboratory

Blue Gene computer

In top five life sciences computing facilities in the world by 2013.
Scale, integration and partnerships build excellence

Neuroscience and Neurodisease

Biotechnology

Cancer

Infection and Immunity