ICRP: adding value to cancer research

ICRP’s mission is to add value to cancer research efforts internationally by fostering collaboration and strategic co-ordination between cancer research organizations.
<table>
<thead>
<tr>
<th>Year</th>
<th>Milestone Details</th>
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</thead>
</table>
| 2000 | • CSO cancer research classification developed by NCI & CDMRP  
      • 8 organizations invited to join |
| 2003 | • First generation website launched |
| 2010 | • Agreement to share full data between Partners |
| 2011 | • New website launched to Partners, giving access to improved analytical tools |
| 2012 | • Public launch of new ICRP site  
      • First international analysis of cancer research (2005-2008) published |
| 2014 | • Data from 81 organizations included in the ICRP database  
      • Planned launch of 2nd International analysis of cancer research (2005-2011/12) in late 2014 |
# Directors & managers from:

## USA
- American Cancer Society
- American Institute for Cancer Research
- Avon Foundation
- California Breast Cancer Research Program
- US Department of Defense (CDMRP)
- Susan G. Komen for the Cure
- National Cancer Institute & NIH
- National Pancreas Foundation
- Pancreatic Cancer Action Network
- Oncology Nursing Society Foundation

## Canada
- Canadian Cancer Research Alliance (Consortium of 42 funders)

## Europe
- National Cancer Research Institute (UK Consortium of 21 largest funders)
- Dutch Cancer Society
- French National Cancer Institute

## Australia
- National Breast Cancer Foundation
- Cancer Australia

## Japan
- National Cancer Center
What we do

Participating organizations/agencies share high quality, coded data via the international cancer research database

The ICRP database contains data on more than 63,000 grants from 81 institutes and organizations (totalling $14.7bn) and is expanding every month. We use this unique resource to ask

- What are the gaps in cancer research?
- What are the trends in cancer research funding?
- What types of projects have been funded (e.g. Clinical, Research, Training)?
- What research areas are being funded (CSO)?
- What types of cancer are being funded?
- What is the funding profile across different countries and organizations?
- How can we maximize our research efforts?
- How can we foster strategic collaborations between funding organizations?
Understanding the cancer research landscape

ICRP publishes regular data reports

- 2005-2008 benchmark analysis of cancer research funding
- 2005-2011/12 trend analysis of international cancer research (publication due in late 2014)

ICRP data contributes to topic-specific reports led by ICRP, or interests of partner organizations (e.g., Childhood cancer)

Current ICRP analyses:
- Obesity & cancer
- Environmental influences
- Metastatic breast cancer
- Pancreatic cancer research landscape
Childhood cancer research in the ICRP database

Analysis of 2008 ICRP data led by the UK’s National Cancer Research Institute

- $163.5 million (3.2%) had an identifiable association with children’s cancer
- About 65% from funders in the USA, 20% from the UK, and the remainder from Canada, the Netherlands and France
- The CSO profile, below, revealed that the highest investment was in treatment research:

Further info at:

Similar to the profile of ALSF awards coded recently:
Childhood cancer research in the ICRP database

Identifying childhood cancer

➢ At present we do not have a childhood cancer ‘tag’ in the database, but this exists in a number of our participating organizations’ datasets (UK, NIH project terms)
➢ We use keyword terms across the ICRP database to extract relevant awards:

Search terms:
- child* (includes children/childhood)
- girl* (includes girls)
- boy* (includes boys)
- infant* (includes infants/infantile)
- paediatric* (includes paediatrics/paediatrician)
- pediatric* (includes pediatrics/pediatrician)
- youth
- young
- puberty
- adolescent* (includes adolescence/adolescent/adolescents)
- teen* (includes teenage/teenager/teenagers)
- neuroblast* (includes neuroblastoma)
- retino* (includes retinoblastoma)
- Wilm* (includes Wilms/Wilms’/Wilm’s).

Database development is led by partner interests.
Going beyond data….

Participating organizations/agencies also:

– Meet annually to discuss implementation of CSO within their organizations and share portfolio analyses
– Share information on best practice in research management
– Share information on research evaluation and look for joint actions where possible in measuring the outputs of research
How we work

ICRP representatives

Monthly teleconferences

Annual Meeting

Ad-hoc Committees

Operations Manager

Portfolio analysis

Data quality & coding

Evaluations & outcomes

Membership

Finance

ICRP Chair 2013-2015:
Dr. Marc Hurlbert, Avon Foundation

Vice-Chair:
Dr. Miranda Kleijn, Dutch Cancer Society
Infrastructure

- **In-kind investment in the web site and database**
  - NCI has provided a .org site and database through its contractor
  - Further modifications & enhancements are planned and financed by the Partners

- **Operations manager**
  - Annual meeting
  - New projects planned at annual meeting and throughout the year

- **Membership fees**
ICRP’s web site provides

• A public site to allow users to search for research awards using defined criteria and is a valuable tool for researchers to identify potential collaborators worldwide

• Partner-only analytical tools on the new web site to allow organizations to conduct their own analyses of the international portfolio, giving our Partners an international perspective to help inform strategic planning

• Online networking tools and document exchange for our Partner organizations via a web site forum
Established in 2000, International Cancer Research Partnership (ICRP) is a unique alliance of cancer organizations working together to enhance global collaboration and strategic coordination of research. We aim to improve access to information about cancer research being conducted and enable cancer organizations to maximise the impact of their independent efforts, for the benefit of researchers and cancer patients worldwide.

- ICRP includes organizations from Canada, France, the Netherlands, United Kingdom, and the United States.

- ICRP organizations share funding information in a common format (known as the Common Scientific Outline or CSO) to facilitate pooling data and evaluating data across organizations.

- The ICRP database contains information on 59,775 grants, totalling some $13,601,386,007 in cancer research from 80 organizations.

- Researchers can search the ICRP to avoid duplication and identify collaborators.

If you fund cancer research anywhere in the world, you should be a member of ICRP. Learn more about becoming a member.
Comprehensive search functionality

Users can search by year, organization, city, country, CSO, cancer type, keyword, project type, PI Name....
Online, the results list can be sorted in ascending or descending order by any of the column headings. You can drill down to the detail on any award.

Data analyses (including abstracts & $ spend) can be exported to Excel or emailed.

Organization-specific caveats are included in the site.

<table>
<thead>
<tr>
<th>Title</th>
<th>Principal Investigator</th>
<th>Institution</th>
<th>City</th>
<th>State</th>
<th>Co.</th>
<th>Funding Org.</th>
<th>Award Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women's international study of long duration oestrogen after menopause (WISDOM)</td>
<td>Dunstan, D</td>
<td>St Bartholomew'S Hospital &amp; Royal London School of Medicine &amp; Dentistry</td>
<td>London, England</td>
<td>UK</td>
<td>DOH</td>
<td></td>
<td>DOH100</td>
</tr>
<tr>
<td>Elucidating And Modeling Irradiation Effects On Centrosomal And Chromosomal Stability Within Breast Cancer</td>
<td>Maxwell, Christopher</td>
<td>Lawrence Berkeley National Laboratory</td>
<td>Berkeley, CA</td>
<td>CA</td>
<td>US</td>
<td>DOD, CDMRP</td>
<td>BC050612</td>
</tr>
</tbody>
</table>
Projected details can be viewed, exported or charted.....
Safeguarding data

ICRP has put policies and procedures in place to safeguard organizations’ data and to ensure that the data is used for the planned purpose. Key policies are that:

- Partners may use the data made available through the restricted view for internal purposes only.
- If Partners wish to publish any part of the data/reports on the restricted site, they must gain the approval of the Partnership first.
- Important caveats relating to Partners’ data will be included on the site for reporting.
- New Partners cannot gain access to the international portfolio until they have contributed data and agreed to abide by the policies and procedures.
ICRP offers a unique opportunity for cancer research funding agencies to share experiences and resources

- Portfolio analysis – via the online web database and as collaborative groups
  e.g. Chemoprevention analysis, Sept. 2011, Environmental influences on cancer, 2012

- Evaluations, led by Partner interests
  e.g. Evaluating career development awards
  Survey of peer review strategies
  Repository of evaluations

- Networking and sharing ideas
  e.g. Monthly & adhoc teleconferences
  Newsletters
  Annual meeting
  Partner exchanges
Next steps for ICRP

- New opportunities for joint analysis & evaluation.
- Expanding the dataset to cover a higher percentage of world cancer research funding
- Improving opportunities to share expertise
- Linking award data to research outcomes:
  - ICRP will include ORCID identifiers in the future
  - Linking awards to publications, tracking career pathways
  - Starting collaborations with bioinformaticians (data/text mining)
- Making coding easier and maintaining coding quality
Membership models

- Organizations can join individually, or in consortia
- Membership fees are tiered
- Tiers are determined by annual research portfolio expenditure

<table>
<thead>
<tr>
<th>Tier</th>
<th>Research Investment Budget (U.S. Dollars)¹</th>
<th>Annual Contribution (U.S. Dollars)²</th>
</tr>
</thead>
<tbody>
<tr>
<td>VI</td>
<td>$250M or over</td>
<td>$25,000</td>
</tr>
<tr>
<td>V</td>
<td>$150M-$249M</td>
<td>$12,000</td>
</tr>
<tr>
<td>IV</td>
<td>$25M-$149M</td>
<td>$8,000</td>
</tr>
<tr>
<td>III</td>
<td>$10M-$24M</td>
<td>$5,000</td>
</tr>
<tr>
<td>II</td>
<td>$5M-$9M</td>
<td>$2,000</td>
</tr>
<tr>
<td>I</td>
<td>Less than $5M</td>
<td>$500</td>
</tr>
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Membership by consortium can be very cost-effective. For example, 5 organizations reporting annual research investment of $1M each, would save $500 by joining as a consortium.

Other services:
- We offer CSO coding for the initial data upload
- Ongoing coding services can be offered also at low rates
For further information, or a membership pack, please contact:

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www.icrpartnership.org

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