Intro to Public HRA Reporter*

February 1, 2019

*Initially the public side of HRA Reporter was called HRA Analyzer. But as of Feb 1, 2019 it is called HRA Reporter and the members’ only database is called HRA Analyzer
What is HRA Reporter?

HRA Reporter is the public interface for HRA Analyzer

(Analyzer is now the name for the members only grants database)

Note: Images for HRA Reporter are mockups, the actual tool may look different.
HRA Member Awards Tools

**HRA Analyzer:**
Is private for HRA members to login and view data and use the tool.

**HRA Reporter:**
Will be publicly accessible, anyone can view the data and use the tool. Only awards from funders that choose to participate will be visible.

**HRA Open:**
Is a web-based service, sponsored by HRA, that promotes open access and enables your awardees to link your support to their research outputs.
### HRA Analyzer’s Capabilities

#### Filters

<table>
<thead>
<tr>
<th>Source</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projects</td>
<td>476,058</td>
</tr>
<tr>
<td>Publications</td>
<td>29,080,954</td>
</tr>
</tbody>
</table>

#### Funder

- NCI: National Cancer Institute - 60,510
- NIAID: National Institute of Allergy and Infectious Diseases - 45,023
- NHLBI: National Heart Lung and Blood Institute - 42,900
- NIGMS: National Institute of General Medical Sciences - 36,223
- NIDDK: National Institute of Diabetes and Digestive and Kidney Diseases - 32,814
- NINDS: National Institute of Neurological Disorders and Stroke - 29,292
- NIMH: National Institute of Mental Health - 27,476
- NICHD: National Institute of Child Health and Human Development - 22,961
- NIA: National Institute on Aging - 17,225
- NIDA: National Institute on Drug Abuse - 16,390

#### Funder Group

- NIH: 424,156
- HRA: 50,248
HRA Analyzer’s Capabilities
HRA Analyzer
Visualizations

Research Organization 1
University of California, San Francisco

Compare and explore the funding of two research organizations above and selecting the desired classification scheme. Click on top level areas to expand to the next level.
Who Funds in My Area?

1,724 Projects
USD 362.8 M

Sort by: Alphabetically

- Mechanism of F. falciparum histone deacetylase 2 function in var gene silencing
  American Heart Association to Kristen Michelle Skillman

- Clinical Research Fellowships for Medical Students 2010
  Doris Duke Charitable Foundation to Joel Palefsky

- Understanding vascular dysfunction in severe malaria with a 3D engineered microvessel model
  American Heart Association to Mana Bernabeu

- Pre-clinical Evaluation of a Novel Vaccine for Pediatric Falciparum Malaria
  March of Dimes to Jonathan Kurtis

- Pre-clinical Evaluation of a Novel Vaccine for Pediatric Falciparum Malaria
  March of Dimes to Jonathan D. Kurtis

- Functional genetic characterization of a novel host determinant of Plasmodium falciparum malaria
  Doris Duke Charitable Foundation to Elizabeth S. Egan

- Estimating the impact of indoor residual spraying of insecticide using a novel health facility-based malaria surveillance program in Uganda
  Doris Duke Charitable Foundation to Grant Dorsey

- A comprehensive analysis of bone marrow homing during malaria infection
  American Heart Association to Sandra K. Neira
Why public HRA Reporter?

HRA’s Mission Statement

HRA is a collaborative member organization of nonprofit research funders committed to maximizing the impact of biomedical research to improve human health.

Strategies from HRA’s Mission Statement and 2015 Strategic Plan

- Foster open communication and collaboration
- Collect and share comprehensive data and analysis about nonprofit funding for biomedical research and training
- Provide leadership, knowledge, tools, and opportunities to promote innovative and effective grantmaking
- Address issues that are key to accelerating research discovery and its translation
HRA “Grants Database”

Strategic Plan Recommendations

• Transition to a new database platform.

• **Public Accessibility:** Given the important role of non-profit funders and the value of the data, as well as principles of openness and transparency, some or all of the data will be made publically accessible.

• To fully capture the size and scope of funding by the non-profit sector, the goal is to have the database represent as large a segment of the non-profit community as possible.

• Feasibility: How to resource this adequately. Is external funding needed?
# Before Public HRA Reporter: Reports

Table 2

<table>
<thead>
<tr>
<th>Type of organization</th>
<th>Number of organizations</th>
<th>Total grants 2006–2008</th>
<th>Total $ 2006–2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noncancer disease-specific and child health organizations†</td>
<td>13</td>
<td>6,331</td>
<td>1,541,493,732</td>
</tr>
<tr>
<td>Cancer-specific organizations‡</td>
<td>13</td>
<td>2,725</td>
<td>922,542,420</td>
</tr>
<tr>
<td>Biomedical research organizations§</td>
<td>6</td>
<td>878</td>
<td>248,382,102</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>32</td>
<td>9,934</td>
<td>2,712,418,254</td>
</tr>
</tbody>
</table>

*The HRA is a consortium of private, nonprofit funders of biomedical research and training.

†These include the Alzheimer’s Association, American Diabetes Association, American Heart Association, Arthritis Foundation, Autism Speaks, Food Allergy and Anaphylaxis Network, Foundation Fighting Blindness, the Gerber Foundation, Juvenile Diabetes Research Foundation International, March of Dimes Foundation, Muscular Dystrophy Association, Simons Foundation, and Sjögren’s Syndrome Foundation.

‡These organizations include the American Association for Cancer Research Foundation for the Prevention and Cure of Cancer, Alliance for Cancer Gene Therapy, American Cancer Society, Avon Foundation for Women, Cancer Research Institute, Children’s Tumor Foundation, Conquer Cancer Foundation, Damon Runyon Cancer Research Foundation, Susan G. Komen for the Cure, the Leukemia and Lymphoma Society, Lymphoma Research Foundation, Multiple Myeloma Research Foundation, and Prevent Cancer Foundation.

§These organizations include the Burroughs Wellcome Fund, the Donaghue Foundation, Doris Duke Charitable Foundation, Howard Hughes Medical Institute, W.M. Keck Foundation, and the Medical Foundation, a division of Health Resources in Action.
Before HRA Reporter: Infographics

A Snapshot of 2012 Grants in gHRAsp

HRA Award Characteristics in 2012

- In 2012, 46 organizations made 3,206 awards to 2,579 investigators totaling $866 million (36% of non-profit sector funding)

- Median Award Size: $151,000
- Median Award Duration: 24 months

Nearly half of the award dollars were for early career development and training, compared to about 9% of NIH grants.

Award funding covers the broad spectrum of basic discovery and translational and clinical research.

- 51% Research
- 45% CO3*1
- 4% Other

*CO3 = Career Development and Training

Geographic distribution of HRA funding:
- 47% Translational and Clinical Research
- 30% Basic Discovery Research
- 1% Other

- More than $50 million
- Between $10 and $50 million
- Between $5 and $10 million
- Between $0.8 and $5 million
- Less than $0.8 million

CHARACTERISTICS OF HRA INVESTIGATORS

- 40% are female

Although female investigators are well represented at the training phase of their careers, their representation declines as they become more senior.

- 47% of training grants
- 36% of career development grants
- 33% of research grants

Very few funded investigators are underrepresented minorities.

Innovate
### Bladder Cancer Funding Analyzer

**Results:**

<table>
<thead>
<tr>
<th>Projects</th>
<th>Aggregated funding amount</th>
<th>Average funding amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,045</td>
<td>USD 458.4 M</td>
<td>USD 491 K</td>
</tr>
</tbody>
</table>

**Projects**
- Novel 3D personalized bladder cancer model on demand: A new era for personalized medicine.
- Funding amount: USD 49,939

**Filters:**
- **Funder:**
  - NCI National Cancer Institute
  - JSPS Japan Society for the Promotion of Science
  - NIDDK National Institute of Diabetes and Digestive and Kidney Diseases
  - CRUK Cancer Research UK
  - BCAN Bladder Cancer Advocacy
  - CIHR Canadian Institutes of Health Research
  - EC European Commission
  - DFG German Research Foundation
  - HHS United States Department of Health and Human Services
  - CDM... Congressionally Directed Medical Research Programs
- **Funder Group**
- **Research Organization**
- **For (ANZSRC) Category**

**Summary:**

HRA Reporter: Powerful Realtime Reporting

Bladder Cancer Funding Analyzer
### HRA Reporter Mock-up

**Dimensions**

- **FILTERS**
  - FUNDER
    - American Association For Cancer: 77
    - Patient-Centered Outcomes Research: 40
    - Damon Runyon Cancer Research Foundation: 28
    - St. Baldrick's Foundation (SBF): 5
    - Arnold and Mabel Beckman Foundation: 5
    - Alzheimer's Association (ALZ): 2
    - Melanoma Research Alliance (MRA): 2
    - National Psoriasis Foundation (NPF): 2
    - Tuberous Sclerosis Alliance (TSA): 1
    - Arthritis Foundation (AF): 1
  - More

- **START YEAR**
- **ACTIVE YEAR**
- **RESEARCHER**
- **RESEARCH ORGANIZATION**
- **COUNTRY**
- **FIELDS OF RESEARCH**

**GRANTS**

<table>
<thead>
<tr>
<th>Title</th>
<th>Funding amount (USD)</th>
<th>Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taking on SSA, a mutagenic DNA repair pathway induced in familial-inherited breast cancer</td>
<td>140,000</td>
<td>2007 - 2010</td>
</tr>
<tr>
<td>Damon Runyon Cancer Research Foundation to Katharina Schlacher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breast Cancer Prevention, Detection and Treatment Awareness</td>
<td>17,600</td>
<td>2003 - 2006</td>
</tr>
<tr>
<td>Arnold and Mabel Beckman Foundation to Rachel Bowman</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient-Centered Outcomes Research Institute to Karen Joanne Wemik</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Role of Breast Density in Decision Making for Breast Cancer Screening and Diagnostic Testing – The BCSC-ADVANCE Study</td>
<td>7,628,405</td>
<td>2016 - 2021</td>
</tr>
<tr>
<td>Patient-Centered Outcomes Research Institute to Diana Miglioretti</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Development of novel T cell repertoire assay for the study of the immune response to breast cancer</td>
<td>140,000</td>
<td>2007 - 2010</td>
</tr>
<tr>
<td>Damon Runyon Cancer Research Foundation to Yu Wong</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Characterization of the Trop 2 receptor in breast cancer progression</td>
<td>450,000</td>
<td>2006 - 2005</td>
</tr>
<tr>
<td>Damon Runyon Cancer Research Foundation to Loren S Michel</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ANALYTICAL VIEWS**

- **FIELDS OF RESEARCH**
  - 1112 Oncology and Carcinogenesis: 129
  - 0601 Biochemistry and Cell Biology: 33
  - 1117 Public Health and Health Services: 31
  - 1107 Immunology: 16
  - 0604 Genetics: 12

- **OVERVIEW**
  - Aggregated funding amount: Average funding amount USD 123.8 M USD 750 K

**RESEARCHERS**

- Shelley Hwang: USD 13.4 M
  - Alliance for Clinical Trials in Oncology, United States

- Lemuel R Weisman: USD 8.4 M
  - University of Kansas Medical Center, United States

- Andrew A Nierenberg: USD 4.0 M
  - Massachusetts General Hospital, United States

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Note: Images for HRA Reporter are mockups, the actual tool may look different.
HRA Reporter Visualization Mock-up

Note: Images for HRA Reporter are mockups, the actual tool may look different.
Challenges to Implementation

- Need the ability to exclude some members entirely from showing in public HRA Reporter
- Need the ability to hide award amounts
  - members can include award amounts in HRA Analyzer for members to see, but not display publicly in HRA Reporter
- Need robust Data Sharing Agreements
- Need each organization to approve data to be shared publicly
## Participation Levels

What are our options for participating?

<table>
<thead>
<tr>
<th>Option</th>
<th>Private HRA Analyzer</th>
<th>HRA Reporter Options As Requested by HRA (aka “Participation Level”)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>All data</td>
<td>All data</td>
</tr>
<tr>
<td>2</td>
<td>All data</td>
<td>All data minus award amount (even if award amount was submitted to HRA Analyzer)</td>
</tr>
<tr>
<td>3</td>
<td>All data</td>
<td>No data</td>
</tr>
<tr>
<td>4</td>
<td>No data</td>
<td>No data</td>
</tr>
</tbody>
</table>
How to submit your data

• To submit, email an export from your grants management system (or other database) to supportHRA@dimensions.ai. We will review your data for completeness, and will do the necessary work to fit the data into the HRA Analyzer data model. You will still need to include fields such as title, abstract, PI name, etc., but many of the other data requirements have been eliminated.

• Every time an HRA member sends their data via email to supportHRA@dimensions.ai, the member must confirm their level of participation in the email (e.g., include all data, exclude from).
Support Responsibilities

Digital Science
• Providing helpdesk for HRA members answering questions when able, otherwise routing to HRA Admin.
• Creating FAQ video for posting on HRA’s public website.
• Supporting HRA Analyzer users (HRA members) including processing data updates (no changes here).

HRA Admin
• Respond to inquiries from members.
• Fielding public questions and routing to members as appropriate.

HRA Members
• Respond to request for level of participation including signing a data sharing agreement, if applicable.
• Answering questions from the public about HRA Reporter that pertain to your awards.
Next Steps – Short Term

• HRA will share the slides and recording
• HRA will confirm organizations’ designated contact
• HRA and DS will update and share the FAQ
• Each HRA member will need to specify their particular “Participation Level”
• HRA members must sign the data sharing agreement reflecting that participation level
• ONGOING - HRA members need to ensure HRA Analyzer data is current!!

Questions?